



### ...THE YEAR OF THE GAME LORDS.

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#### APRIL 1984 Vol III No 7

### News & Reviews

GAMES NEWS The Snowman, that wonderful carcharacter created by Raymond Briggs, comes to the puter version of the book. Pi-man continues his antics in Microworld

Game of the Month this issue is a cute little number for the Commodore 64 called Bug-a-Boo. We graphic adventure for the Specners — for the 64.

ARCADE ACTION 26 Blackpool in the middle of winter but when there's an arcade show. Field, a great new sports sim



Journey through space on a quest for a stolen crystal. Pirates have hidden the crystal in the heart of a forbidden planet.

The bells! The bells! The bells are ringing for Texas owners with a liking for old horror stories. Help the hunchback of Notre Dame rescue his true love



O'BERT

You are miles from home and your jet is rapidly running out of fuel over the ocean. But look, there's a ship with a flat deck just right for landing on! Will you be able to land your Harrier safely on the ship?

You are the lone survivor of a tank squadron facing the massed forces of the enemy! Can you fight them off with your

Another chance to meet that foul-mouthed denizen of the arcades - this time for Dragon owners. Help Q\*Bert survive

Are you brainy enough to beat the pirates and save yourself from a watery death? Find out on the good ship ZX81!



This issue C&VG takes a step sideways and into the world of musical micros. We've persuaded Vince Clarke, ex of Depeche Mode and of Yazoo and now masterminding The Assembly, to judge a very special competition based on the music programs you'll find inside this issue. We've also persuaded our friends at Yamaha — the manufacturers of some of the world's most sophisticated keyboards - to provide some terrific prizes for our winners. You'll find out all the details on page 45. We've also come up with some nifty little programs on page 56 to turn your front room into a light show! And we also, finally, announce the winner of our Seventh Empire epic. Really!

MAILBA	G			
A review	of	our	reviewers	plu
much more				

Win £1.000 worth of loe the Lion A look at our brand new software

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ADVENTURE All that's new on the fantasy scene

All you wanted to know but afraid to ask

Do they really like the Sound of



the perils of the multi-coloured pyramid!

r Dapene Lacoy, Editorial assistant Clare Edgeley, Reader services Sobert Schibsen (01-278 3881). Art Editor Linda Froeman, Designer Lynda We confind Assessed to the Confine Con

IS NOW YOUNG CRAMMER FORTER, SERCEIFFOR EXPINED. It was for special for special forms in the control for service or COMPUTE AND YEAR OF CRAME on the value of special forms to the special forms to the special form to the special forms of the special forms of the special forms to the special forms of the

## LYNX SOFTWARE. NOW AS CLOSE AS THE POST.

You'll find Lynx software in more stores than ever before. And now it's available from the end of your street. Because you can order your favourite games by post direct from Camsoft. These are the first of our titles. There are lots more on the way. Fill in the coupon below and have fun by return.

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### CHEAP DEAL FOR 64 . . .

Dear Sir,
I would like to point out that
in your December issue you
stated that a Commodore 64
cost around £285 with
cassette recorder. I recently
purchased the CBM 64 for
£250 with manual —
Introduction to Basic, Part

I — cartridge game — Radar Rat Race — leads and cassette recorder. Perhaps other readers have come across this bargain?

Could you please advise me on buying a Scramble for the CBM 64. Also is there a Zaxxon for the CBM? Martin Emery, N. Yate,

Bristol.

Editor's reply: There is a

Scramble-type game for the

64, Martin. It's called Supers

Stramble and it comes from

Terminal Software of

Manchester. You could also

have a look at Falcon Patrol

from Virgin. There's not a

Zaxono for the 64 as yet.

## TRY PLAYING ADVENTURES!

Having just read your January Mailbag, I totally disagree with Mr Goodwin. If he thinks that all the Spectrum games are just "childish tripe" then he is totally wrong.

He only has to look at one Spectrum game and see what the average standard is! The game I have in mind is

The Hobbit — a superb game which I think will be "taxing" enough. If this is not good enough, then he can try Cyrus' Chess or many of the other Adventure games on offer.

I would say that David Gardner, who also wrote in the January issue, saying that Atari software does not make use of its sound, is wrong. Atari owners may pay the most but they get what they pay for — the best sound and graphics, better than any other micros for its price.

Is there a cassette of

other micros for its price.

Is there a cassette of
Donkey Kong for the Atari?
Would it be cheaper than the
cartridge version?

I Sheldon.

Chiswick, London.

London.

Editor's reply: Even though it is more expensive, check out the official version of Donkey Kong from Atari. It is by far the best we've seen. I'm afraid we don't know of a cassette Kong.

## LOOKING FOR GOOD GAMES

Dear Sir, Please could you give me advice on which Donkey Kong cassette is the best buy for the 48k Spectrum? Also I would like to know if there is a Gorf arcade-like game for my Spectrum. I have been looking for ages but I have not had any luck. Finally, which Asteroids is the best

buy?
Darren Byrne,
Allestree,
Derby.

Editor's reply: In answer to your questions, Darren, I your questions, Darren, I your nearest store where a good selection of games are available to view and have a look at Ocean's Donkey Kong. As far as I am aware at the present time, Gorf inn't available for the Spectrum and lastly, try Planetoids from Sinclair.

#### DEFINING GRAPHICS Dear Sir.

Deal St.,
I buy your magazine every
month and I am very pleased
with your Vic-20 features, but
I have one problem which I
hope you can solve. Nobody I

know can solve it and neither can the reference guide which I have purchased. The problem is to do with programmable graphics.

I know how to make the characters using DATA statements, but I do not know how to use these characters within a program or how to call them up to print them within a program. I understand how to use

I understand how to use the user defined function on the Spectrum which is much easier, but I would like to be able to understand how to use this capability on my Vic-20.

Vic-20. Kevin Page, Norwich,

Norfolk.
Editor's reply: In answer to your problem, Kevin, here is a short program to include user defined graphics in your programs:

10 POKE 56,28
20 DATA (Your character's DATA statement)
30 DATA 999
40 RESTORE
50 I=O

50 I=O 60 READ A: IF A=999 THEN 80 70 POKE 7168+LA:I=I+1:GOTO 60

80 POKE 36859,255.
You can write the rest of your program with this either at the start as a subroutine, or wherever you need it. The user defined graphics start at the @ graphic and continue A,B,C, etc.

## FORGOTTEN APPLES?

Dear Sir,
You seem to have stopped
the games reviews for the
Apple computers, which may
be an expensive computer,
but there do seem to be
lots of Apple owners who
cannot get any information
about games available and
when they are released.

If possible, could you bring back news of software on the

Apple II, II+ and IIE? Though you may think Apples are very expensive, I got mine for around £200 while the normal retail price is £500-£700.

I find your magazine interesting and well written Keep up the good work! Keung Lee, Mid-Glamorgan,

Wales.
Editor's reply: We will try
to bring you news of Apple
games, Keung. In fact you'll
soon be seeing some Apple
adventures reviewed in the
magazine. Don't despair, we
haven't forgotten your
favourite micro.

## THE TROUBLE WITH VIC . . . Dear Sir,

I bought my son a Vic-20 for Christmas only to find that the tape did not run and the computer was found to be faulty. The nachtine was exchanged. With this second computer, he found that it would not hold a program, so this was again returned. The third time the cassette gave in after a couple of days. Finally he decided that he would have a different make.

The one he chose was a Sord M5 with a 20k memory which has not given any trouble and the makers, C.G.L., have been very helpful, even giving a telephone number he can ring if he has any kind of

Have any of your readers had problems with the Vic-2071 would also like to know if you intend to publish programs for the Sord.

K J Harper,

Telford, Shropshire.

Editor's reply: Sorry to hear you've had so many problems with your Vic. We'll be printing programs for the Sord as soon as we get some, Mr Harper.



RUN CITIES, COUNTRIES, CONTINENTS - BUT, BE WARNED! Someone is about to press the button Apocalypse of STRATEGY

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## MAILBAG

#### ANNOYED Atari fan

Dear Sir,
I was compelled, nay forced, to put pen to paper after reading David Gardener's letter concerning Atari sound. I read with total astonishment that the Commodore 64 (jumped up Vic-20 perhaps?) has vastly superior sound to the magnificent Atari 800. After banging my head

After banging my head against the wall several times, I read it again. Yep! That's what it says! Has this man had his head buried in the ground for the last few years or is he just deaf!

Perhaps he ought to listen to the sound on Preppie or Shamus or Necromancer or — well the list is endless! I think he may have judged it by listening to Choplifter, which I concede is absolutely terrible although graphically mute good.

No computer can compete with the 80% sound capability, with the exception of the new XL range. Also the states that the games for the states that the games for de 64 can be made as good as the Atan's. Well, isn't it about time. After all these years the 800 has been on the market, it's only now that rival firms are coming anywhere close to being graphically as good

— although still not better!
He wonders if 800 or 400
owners are biased — of
course we are! Who wouldn't
be when they have a machine
which is so vastly superior in
every department —
gameswise — to any other

home micro currently on the market. Maybe Mr Gardener should stick to the old pingpong games and leave home micros well alone! Gary Campbell, Preston.

Lance

## STONKERS IS POSSIBLE! DOA'S SIT.

On reading your review on Stonkers, I decided to write and give my findings. After playing the easy game twice. I defeated it with

After playing the easy game twice, I defeated it with quite a few units to spare. Then straight after this I difficult game. I have since beaten the difficult game having still had four tanks, three artillery, three infantry and all supply units left. I thought that, as the review on Stonkers said it was very difficult, I would send in my hear se five.

best so far.

If other readers find the game as easy as I do, then obviously the reviewer has made an error, but perhaps Stonkers is my kind of game. I will have to try other strategy games and find out if I can do those just as easily. D Hotler

MICRO GAMES MINDLESS?

Dear Sir,
After reading Mike
Goodwin's letter (Jan. 1984
issue), it prompted me to
write to your magazine about
the mindless use of

computers.

The main problem, I think, is that the good side of computers is being cast aside. What started out as an educational project with games as a sideline to keep one's mind stimulated has been completely reversed, with people just buying computers according to how

well they can play games. I myself have used three types of computers, including the Spectrum, making my own programs to suit my own needs, whether it is a program to test French

wocabulary (possibly even on a ZX81) or to make exam notes or file record collections. I have also made my own games (arcade and adventure) and have only bought speciality games like ZX Chess, which I have never

It is a said state of affairs when one sees computers being bought as expensive toys. I'm sure that without those programmers who are dedicated enough to make games for other people, this will follow the same course as the skateboard craze. Calvin Austin

Gillingham Kent

Editor's reply: Here at C&VG we reckon that, although at first people may simply buy a micro to play games with, they soon get interested in their

interested in their machine's other functions—like making exam notes or filing systems. In any event it's up to the individual what they want to get out of their micro, isn't it?

#### MAKE YOUR BBC BLEEP!

When the following program is run, it will enable the BBC to respond to a key being pressed with a bleep: 10 code%=&70 20 P%=code%

30 ?&0220=code% MOD 256 40 ?&0221=code% DIV 256 50 [ 60 LDA £&07

70 JSR &FFEE 80 RTS 90 ].

To switch the bleep on/off use \*FX 14,2/\*FX 13,2 respectively. If you have version 1.0 OS,

then you will be able to vary the type of bleep you get using the following FX calls: "FX 211,X where X is the channel number. "FX 212,X where X is an

envelope number (0-127 in steps of 4). \*FX 213.X where X is the

pitch (0-255).
\*FX 214,X where X is the duration (0-255).

Anwar Ali and Gary
Woolridge.

Handsworth, Birmingham,

#### MINERS JUST CAN'T WIN!

Dear Sir, In your February issue, I read with interest your article on Miner Willy. As I read on, your article said that Software

announcing a super prize to the first person to complete all levels of this game, but this is not true! I cleared all 20 levels and with great haste I phoned Software Projects, but I was told the prize was for Jet Set Willy on the Spectrum.

Please publish this letter as I'm sure it would avoid confusion for other 64 owners. Stephen Treharne

Burry Port

#### VIDEOGAMING HALL OF FAME? Dear Sir,

I have been a regular reader of your magazine since it started, but over the last few months there seems to be more computer articles and less video game reports. This is excellent if you have a computer.

computer.

I feel not enough space is given to new releases (where are the reviews for Lady Bug, Space Panic. Cosmic

Avenger etc?)
I think the Joystick Jury is a good idea, but the jury is very severe and I think the marking system should be

improved.
I'd also like to see a Hall of
Fame and Charts for Atari,
Intellivision, ColecoVision
and Vectrex machines.
Frank Paton,
Dundee,

OK Frank, point taken.

R Hall of Fame for
Videogaming is a great idea
and one we may well take
up. I can't make any
apologies for the toughness
of Joystick Jury though—
with game cartridges
retailing at around £30
sach, the jury like to be
advising readers to part
with the part-earmed

cash

## rcleeubrad

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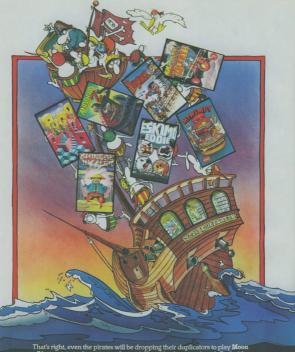
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That's right, even the pirates will be dropping their duplicators to play Moon Alert, to join in the swinging fun with Hunchback, to attack with Android Two, jump for their lives with Togo, spin themselves dizzy with Chinese Juggler, they'll just crack-up with Eskimo Eddie's Arctic action and there will be no stopping the captain once he gets his hook on Mr. Wimpy that zary burger battle.

Even the most rutheless of pirates will be kept busy trying to improve their handicaps on the testing greens of Royal Birkdale and if they are still game for action adventure then the Island of Death is the place where only the sharpest of swash-bucklers will survive. They il all be fighting to save the



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MICRODEAL 1984

#### COMPETITION COMPETITION COMPET

### CALISTO'S £5,000 WINNER!



Nineteen year old David Thomas is £5,000 richer and also looking forward to a career as a full time computer games writer with Adventure International as a result of entering one of our

competitions. Birmingham-based Calisto Software challenged C&VG's readers in our June '83 edition to write a game good enough

to sell commercially. David immediately sat down at his Atari 800 and, after many hours bashing his keyboard, gave birth to Warlock a super fast, Scramble-type; shoot-'em-

up with truly stunning graphics. Calisto were so impressed with the game that they have now marketed it

commercially and are about to release a Commodore 64 version of the The £5,000 cheque sup-

plied by Calisto's managing director, Mike Woodruffe, was presented to David at the Golden Joysmonth by disc jockey -Dave Lee Travis.

David intends to spend a large part of his winnings on computer equipment to enable him to write more games.

Writing games looks like becoming quite an important part of David's life as, since the competition, he has been offered a full time job by Adventure International.

Adventure International's boss, Scott Adams, has invited David over to the company's Florida head office in America to sign a contract and take a course in adventure writing techniques under the guidance of the grand master him-

Which all goes to show - the biggest and best prizes are always in C&VG.

#### CALLING ALL THOSE CARTOONISTS



We've decided to let you run riot over our pages - and you could win a prize too! Just send us a cartoon about computers or video games - make it as original as possible please - and you could soon be the proud owner of (details of prizes).

There are six prizes - two for each age group. The categories are: Under 12. Under 18. Over 18. Don't forget to include your name, address and age on

any entries you send us. Write them on the back of each cartoon you send us. Remember you can pick any theme you like, but keep away from things we've already seen in other magazines

and newspapers! Send your entries to Cartoon Contest, Computer and Video Games, Durrant House, 8 Herbal Hill, London EC1R 5EJ Closing date for the competition is April 16th - so get your pencils sharpened and start work now!

#### This is the first in a series of brand new C&VG crosswords. The first

three correct answers out of the C&VG memory bin will get an amazing "The Champ" t-shirt. Just send your completed crossword to Computer and Video Games, Crossword, Durrant House, 8 Herbal Hill, London ECIR SEL



#### Clues — Across 3. Computer game for a lit-

- tle green hopper ... (7) 7... and one that's all-
- 8. Occupies enemy terri-9. Stores a program (5)
- 12. Heavenly body (4) 14. It translates a high-level language into machine
- code (8) 15. Micro . . . wine barn? (anag.) (8)
- 20. Out of tune, like the
- 22. Amusement area for

- 4. It might give magical powers to the
- 6. Chance taken (4)
- 10. Computer reasoning (5) 11. Myriapod game (9) 13. The study of automatons (8)
- 17. Map (5) 18. Users' group (4)
- 19. Morse, for example (4)

#### CALLING ALL DRAGONS! Well this month we've decided to Leggit

over to Wales where it's a well known fact that fire-breathing Dragons reign

We've got 100 Leggit tapes for the Dragon 32 to give away free, courtesy of Imagine Software. So get your trigger finger into training and prepare to fight for your life, bit by byte, past those fiery creatures to your nearest post office.

Send in your coupon, marked Dragon Leggit, to Computer & Video Games, 8

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CONVERSION TAPE III



■ TRADE Most items are available from W.H. Smith, Boots ■ ENQUIRIES Spectrum Computer Centres and good WELCOME computing shops or direct from

## COMPETITION COMPETITION COMPET

#### THE SUN SETS ON THE SEVENTH EMPIRE

Well, it's finally over. The last turn of the Seventh Empire has been run, and a worthy winner has emerged.

And if your player number was 3201 then congratulations! You've won yourself a spanking new ColecoVision games centre,

But before you frantically search for that crumpled piece of paper with that manic number on . . . don't. Unless, that is, you happen to live in Sandringham Close. Haxby, York and be called T. White.

You do? Great. Well done! But just in case you're not Mr White

then here's how the game went. Top score, as above, was obtained by T. White; player number 3201. His overall total for all six turns of the game stands at a massive 17,331 - well worth a Coleco.

So near, and yet so far, was runner-up player number 1781. This code belongs to Bob Wade from Orpington, Kent. His overall score is 16,009. I'm sure that we can find a suitable consolation prize for Bob. How bout it. Tim?

The remainder of the Seventh Empire hall of fame looks like this, running down

A. Capaldi, Tynemouth, Tyne and Wear third with 11,678; David Speight, Carleton, Blackgool - fourth with 11.317, fifth was J. Woodhall of Wickford, Essex with 10,992; sixth was P. Tong of Leigh Park, Havant, Hants with 10,386; seventh was W. Mole of Ecclesfield, Sheffield with 9,615; W. Wood from Chorley, Lancs was eighth with 9.013; G. Anderson of Kempston, Bedford was ninth with a score of 8,628 and finally, P. Walker of Woodford Green. Essex was tenth with 8,626 points.

If you do still have any queries, please drop me a line and I'll do my best to answer. them. (Write to the Seventh Empire at the address on the Bug Hunter page.)

## A N



Joe the lion

Once upon a time there were hundreds of software companies selling lots of exciting games to computer gamers all over the country. Then, suddenly, an evil force came along and whisked all the poor little software companies off to an enchanted land where they all got jumbled up and lost their powers to create all that fun and frivolity for the poor micro owners.

Then one day a saviour appeared on the horizon in the shape of Joe the Lion! He discovered a mystic book which contained the curse which kept all the software houses in the power of the evil forces.

All he needed to do was unravel the mixed-up names of the software houses from the mysterious story.

But poor old Joe needs your help. Can you find the names of the unfortunate software companies hidden in the following story?

Joe the Lion has £1,000 of software on offer for Oric, Spectrum and BBC owners who manage to crack the riddle.

\*EARLY one summer morning Bim-bo rabbit and his Australian friend, Bruce, were lounging in the soft. silver sunshine near a bridge in Aber

ocean, its water glistening like crystal. on the other virgin fields of level grass. Bimbo was doing his English homework when he was interceptored by Bruce's daydreaming "C&FCDSCP CRKIJKLCLPSSOEDR&R . .

"Just imagine," said Bruce. "Shh," said Bimbo, "I'm trying to learn my alphabet so I can be superior to the rest of the

"You'll never beat soft Tek. He says he finds English addictive and he's only seven. It's his ultimate ambition to teach these new automata."

"He told me his fantasy was to lead a Llama quest to the Arctic. He'd probably shiva to death. What an elephant!" That reminds me," said Bruce, day dreaming again. "We used to eat

elephant when we lived in Australia. Back at my Melbourne house . . . or was it salamander?" There was a long pause. Bruce dozed while Bimbo watched Richard the

shepherd and his dog, Romik, herd the sheep in the distance. Presently Bimbo stirred: "Have you heard that new record by Durell Durell?" Bruce sighed: Tll never know why you new generation fill your heads with such rubbish. I can't stand the pase. When I was your age, all I worried

about was my acme. "Ow!" shouted Bimbo "Tve got a bug byte!" Bruce jumped up and turned to his pet sloth, Lorien, "Ouick, Silva!" he shouted sarcastically, "Get a doctor!"

"It's no good. Bimbo retorted." The doctor's away this week. Only Mr Micro could help and he lives miles away."

"I know," Bruce beamed. "I'll use my healing powers." Bruce turned his psi on and all was soon well. "Phew!" Bimbo relaxed. "Now we can get on with the

Well, can you discover how many software companies are hidden in this mysterious story? All you have to do is write down as many names as you can find on a piece of paper, attach it to the entry form below and send it to Computer and Video Games/Joe the Lion contest, Durrant House, 8 Herbal Hill, London EC1R 5EJ. Please remember to tell us what micro you own and fill in how many names you have discovered.

Now for the prizes! The first 60 Spectrum owners with the correct number of names will receive a copy of Joe the Lion's latest game for their machine, called Bimbo. This is an exciting maze chase game. The first 60 BBC owners with the correct answer will get a copy of Challenger. a cross between Scramble and Defender. For Oric owners who solve the riddle, there are 60 copies of Joe the Lion's Loki game, a 3D arcadestyle challenge.

Remember, the first 60 out of the C&VG memory bin on the closing date of the contest, which is April 16th by the way, will win a prize - so get cracking!

JOE THE LION £1,000 SOFTWARE CONTEST

Address

Micro you own: Spectrum/BBC/Oric

Number of software company names hidden in our story (Remember to write out the names you've found on a separate sheet of paper

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## How many times have you seen | Ten taster for these charts -

the phrases "smash hit" or in the advertising blurb for various games. If the claims made by the manufacturers were true then just about every game ever launched has been a hit at some stage in its career.

It's not that the software houses are deliberately setting published by various magazines, butors which all have one dis-

titles in the different top fives. Perhaps the worst case of spurious charts was in a major Set Willy in at the number twelve spot several weeks before the

have become an industry joke is

None of the charts currently all regularly show wildly conflict- available are compiled by a top | cord industry. ing results. Not just different market research company. Until times there are totally different, we will be presenting a Top, you will have already seen a Top, for Top Thirty, it doesn't count.

accurate software chart in the you see a lot of people are taking

A mark of the confidence felt in C&VG's Top Thirty is the fact weekly music paper which two that the Daily Mirror - co-sponmonths ago had the game Jet sor of the chart - is to make it the heart of a brand new computer column.

computer games top thirty The reason that these charts | marks the coming of age of the games business and is further evidence that our hobby is becoming even more like the re-

If you watched BBC's Saturplacings of games - but some- now that is. From our next issue day Superstore on March 3rd,

Thirty compiled by NOP Market and read about our brand new the C&VG/Daily Mirror software

> The first Top Thirty proper will he printed in the Daily Mirror on March 10th - and then the chart will appear in the Daily Mirror every fortnight. C&VG will also print the chart each month.

You should be able to find a local computer shop too. So the next time one of your friends mentions a game that is

doing well in the charts ask him which chart? If it's not the C&VG Daily Mir-

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HOW TO ORDER

#### **SORRY FND** TO SYNAPSE SOUABBI F

SYNAPSE

A transatlantic legal wrangle may rob British Commodore 64 owners of the chance to buy some of the best games software the Americans have to offer.

Synapse software — as many Atari owners will testify - have one of the best range of games of any software house in the world. Recently Centresoft, a British company, have begun to arcade games like Zaxxon, Shamus and Pooyan for the CBM 64 and Atari computers. Obviously these games are in great demand but now, because of a legal row over trade names, the company's entire stock of software has been shipped back to the States. The trouble began over six

months ago when an English objected to the American firm using the name in this country Synapse U.K., a small software house producing custom-debusiness programs, demanded that the name be removed from all the games packaging and advertising.

sticky labels and thought the matter was settled. But the company continued to accuse remove all mention of Synapse lets and the programs themand changes to the programs were so large that the British company were offered a substantial sum of money to settle During the first one he has to not budge from their position.

So Synapse have reluctantly removed their games from the British market for the foreseeable future at least.

mented "It's a ridiculous situation that should never have happened. Commodore 64 owners will now miss the chance to buy what is undoubtedly the cream of

twist. Encounter, one of the games affected by the ban, was originally written in Birmingham

Zaxxon, Quasimodo, Blue Max.

are only a handful of the games that have been withdrawn. Let's hope that the situation can be resolved quickly.

was considered so good that Synapse U.S. bought the world **THE 617** rights, but now cannot sell it in SOUADRON

DAMRUSTER

World War II history is faithfully re-enacted in a new war game named after the world famous

Based on the second world war bombing mission by 617 Squadron, the game faithfully reproduces the beam-on-the water technique and the bouncing bomb designed by Barnes Walsuccessfully bomb the Möhnesee Dam in the valley during 1943.

The player has to pilot his plane close to the ground to distance from the dam before releasing his bomb. Each successful mission moves the game



Raymond Briggs has been turned into a game for the 48k Spec-

Taking its theme from the book, the game is non-violent collect pieces of snow and build

the 'magic' snowman, but each level he must add the finishing



touches like a scarf, nose, eyes

The next two levels are destop the snowman melting. He next to it to keep it cold. The little some toys to play with. And you

must help the child rush around the icy garden looking for a skateboard, cricket bat and ball and some balloons to amuse his

You'll have to keep an alarm

clock handy or the sleep monsters will lull you to sleep. from Quicksilva for the 48k Spec-

## G-A-M-E-S



try's best Dambuster player, with a trip to the Ruhr valley as the prize. This must rate as one of the best prizes offered in a computer game competition, with the exception of the Sun Dial of Pi offered by Automata to the person who finds all the clues in Pi-Mania, their smash hit game which has reached cult status. Details are available from Alliga

tor or their software dealers

be released simultaneously in America and here at home in Britain on the 1st May by Birmingham-based Adventure Inter national. Spiderman should follow a month later.

other adventures, The Hulk will be available for a wide range of

Unlike most of Scott Adams' ore 64. Spectrum, BBC, Oric and

as many times as you like before now possible on a CBM 64 plus breaks for coffee, of course!

1994 is a multi-level game for the 48k Spectrum. You must guide Smithy (I suppose they mean Winston Smith from 1984) through eight levels inhabited by droids, robot eagles and plama the gate to the next screen. WIL-LY get to the top or fall to the bottom of the mine? ... oops

different game - isn't it? There aren't any speed limits on the moon so why not go for a spin across the lunar landscape with a little help from Moon Buggy. It's not all smiles though. The local aliens have got a little narked with all the noise you've been making and are trying to shoot your brains out. Sounds

like a rough neighbourhood. Moon Buggy, 1994 and Articus run on the 48k Spectrum. Two other releases - Banana Drama and Gusher - run on the '64. type game where you play the

Taxes have to be collected. crops sown, exports sold and the population fed, otherwise you

could be on the end of a very All the games are available

remorselessly on. As an ambiof directors and a key to the

The world of high powered business is full of hidden dangers. Taxmen lurk in every lift ready to extract their pound of flesh and you'll have to fend off the Revenue's henchmen with

Your life of wheeler dealing and dirty tricks soon takes its toll on a body more used to five course lunches than a five hour kept on your soaring blood pressure. A whole host of mediies and ulcers threaten to cut

short your promising career. Corporate Climber is definitely not a game for the weak hearted. from Morely-based Dynabyte

Software for the BBC and Acorn



#### HEROES ARE **COMING!** THE HILLK

credible Hulk. Spiderman and Captain America are preparing to games players this summer. Scott Adams, the high priest of

American adventure games, is at this moment producing graphical adventure games based around the characters from the highly successful Marvel comics.

Each adventure will be sold with a specially printed comic. The story line is left hanging at a certain point, and the adventure carries on the rest of story.

Watch out for an exclusive review of The Hulk in C&VG in

## VINI FNT ARMAGEDDON

The Visions Software Factory

has really got their production line working overtime, churning out games at an incredible rate. Another six games have been added to their range of Spectrum and Commodore 64 titles.

Armageddon 'a game of gratuitous violence' is a jolly little game which lets you and a friend







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## G-A-M-E-S N-Etinental have release

### **TERRIFYING** TIME FOR TANPOI FS!

SAVAGE POND

any you will have encountered before. The reality of fighting for life against nature's awesome forces will be more real than any space fantasy can hope to be.

The game is set in a seemingly quiet and peaceful village pond. But the tranquil waters hide a world ruled by death and destruction - governed by the laws of nature

You play the part of a tadpole trying to survive against all the odds. You must guide the tadpole eat the amoebas and avoid the stinging hydras. Many other creatures inhabit the pond, including dragonflies who drop eggs into the pond which must be eaten before they hatch out.

Other hazards such as industbees and water beetles threaten to end the young frog's life. Can you survive and ensure the prowill the demise of the species be

Savage Pond is produced by Liverpool-based Starcade Software for the Atari and Commo-

## **FEARLESS**

to avenge anyone who dares to enter the tombs of the ancient Pharaohs. One man - Fred the seen a living soul for 2,000 years. Are you courageous enough to join him?

During your travels through the labyrinth of passages, hall rats, vampires and the obligatory mummies, acid rain, caused by old and decomposing ceilings, will have to be avoided

or Fred could end als, are responsible for ninety

while he searches for the dead Pharaph's treaammunition can be found along the route. Fred starts each exhe loses energy. Two extra units are gained each time the magic elixir of Nefertiti is drunk or the exit is reached. Fred runs on a 48k Spectrum and is available from Quicksilva

## and costs £6.95.

The Computer Retailers Associa-

attack upon the media's handling of the software piracy issue. The BBC is singled out for particularly harsh criticism over a report on Newsnight that appeared to imply that the British copyright laws were not applicable to computer software. The C.R.A. would like to point

out that the impression the programme gave was in fact erroneous and software houses are actively involved in prosecuting

ALL infringements of copyright. Over six cases have already been brought to the courts and each one has been fought successfully — the courts agreeing that the Copyright Act covers C&VG supports any move

which will halt software piracy, but the methods used to combat copying in the video industry will not work for the games manufac-Children, not organised crimin-

Lower prices and a more original approach to games software is what is needed, not legal

three games so far: Blobbo, a maze game, Minefield and Kilopede - a version of the arcade game Centipede. They have another ten titles under development which they hope to have ready in the very near fu-

The most interesting of the forthcoming games is a pair of games based on Lewis Caroll's novels Alice in Wonderland and Alice Through the Looking Glass.

The two games let you take part in the fantasy world Caroll created in his books, and are presented in full hi-res graphics to help bring home the full force of his magnificent flight of im-Over 30,000 Memotechs have

been ordered and well over 20 software companies are designwho's considering buying a games playing computer should put the MTX 512 high on their list. The three arcade games cost £6.95 each and the two adventures £9.95, and are available based in Witney, Oxfordshire



seems to have a very bright future in front of it. The new computer was only launched late last year but has already gained a large software backing and the approval of many of the top game manufacturers The company lead-

ing the race to produce the hottest games for the





### MYSTICAL **PYRAMID**

PI-RALLED Imagine a wind-swept and arid little pink man with a big snout and you have the makings of a

Burt - the game's central character - has walked into the mother's been nagging him a lot

lately. After a few days of stumbling through the sand dunes, Burt discovers the legendary Mystical the ancient building, Burt makes he didn't count on the Pi-Man and his pals, the Ball brothers being around.

Poor Burt must jump around of the mystic squares while princes Col and Jas. Burt can jump onto the spinning discs hovering above the pyramid and lure Sid over the edge. He'll have

Pi-Men who lie in wait on the Pi-Balled has over 66 different

levels, joystick control and a free record on the cassette entitled Pi-Balled is available from Automata U.K. for the 48k Spec-

Pimania addicts can now keep fit -

with PiMan and his new sports style game OlymPimania With the Olympics not far off. the PiMan has decided to get in shape for the big event with an join him in the Pi-jump, fly down

the Matterhorn in Alp-pi, thrash and probably drown in Butter-pi The PiMan also saddles up for a ride in the most dangerous

Olympic sport of all Step-pi or equestrian horse racing to me The boys from Automata

assure us that the graphics are 'absolutely brilliant' and if the

petition, why not unwind to the rock song on the flip side of the tape entitled The PiLand National OlymPimania will be available

from Portsmouth-based Automata U.K. for the 48k Spectrum in early March and costs £6.00.

I was a little disappointed that there wasn't a book of warm-up exercises with the music perhaps we could have had Pi-



## NOT MUCH **LOVE FOR**

Remember the adventure game ing Glass which chronicles the Denis Thatcher - the husband of the Prime Minister - as he endeavours to escape from the of the Grave Diggers Arms and a well deserved gin and tonic?

The seguel of Denis through the Drinking Glass is almost upon us. It stars one of the country's most feared and hated men. A figure that stirs terror in the hearts of all decent citizens the Tebbit has arrived!

The Prime Minister's right hand man rules the chambers of Parliament with an iron hand. Have you the courage to enter a world of politics full of creatures like the Tebbit?

Denis Through the Drinking Glass and The Tebbit run on the 48k Spectrum and are available

## **GIRLS CAN PLAY GAMES**

**GAMES FOR GIRLS** 

What next? Horace goes flower arranging or maybe the attack of the mutant housewife? No, we now have ladylike games for

Games for Girls is the title of a new and rather ridiculous range of games aimed at encouraging girls to take a greater interest in computers. The makers state the

software will test young ladies' intelligence and application of logic'. Sounds like fun . . . eh girls? All the nasty monster killing and alien bashing that's so popular with their brothers has been removed. Instead they will be served a diet of show-jumping, - well they're a girl's best friend,

Perhaps Case Computer Simulations, the manufacturers. want girls to become more involved in the world of computers then producing a game about show-jumping is not the way to go about it. Besides, aren't boys

jumping, mental arithmetic or diamonds, for that matter? Treating young children differently because of their sex can only widen the 'gap' between computers are a masculine con-

The games are available from London-based CCS for the ZX Spectrum costing £6.00 and





successive Seiddab defensive zones and destroy their command base

The state of your fighter and its armaments along with status reports of the Seiddab defences is given below.

Good luck! May the power be

## ·SHIELDS power level. Status all green.

· GAUGES · Status full. Combat shielded.



missiles - armed. Susceptible to laser strikes.

#### SEID . HOVER . · FIGHTERS ·

strike craft Plodium missiles armed. Susceptible to missile

· LASERS · Iridium powered. Powered up and operational.

#### · MISSILES · ong range weapon system. Radar homing duodec warhead.

Armed and ready to fire.

### RADAR.

ong range, over the horizon sensors. Tuned to the plasma output of Seiddab hover fighters.

NAVIGATION command base. Head up path

#### £7.95 €5.95

his is the latest and most difficult mission in the long running struggle against Seiddab aliens - are you prepared to accept

£5.95

Available for 48K Spectrum from all leading



### AERIAL·MINES

explodes on detecting hoverfighter. Susceptible to

or laser strikes.

### MISSILE-SILO

inal line of defence - self activating. Hewstron Warhead. Susceptible to laser strike.

## COMMANDBASE

ur objective – heavily defended requires many strikes to destroy - you must not fail.



## WE DISCOVER WHAT'S NEW IN BLACKPOOL

Well, the Blackpool show was well stocked with a good mixture

Sprinting into the arcades just in time for the Olympics is Konami's Track and Field. A great game for all you armchair sports enthusiasts with six events from the decathlon to compete in. One to four players can play and if so guaranteed to leave you breath-

less!
One game that certainly catches the eye is Star Rider from Williams. It's one of the new breed of laser games with some striking graphics and sound

effects.
It is the ultimate in motorbike racing — the cabinet is shaped like a racing bike and you've got to sit astride the bike's seat to play. Definitely not a game for anyone wearing a skirt.

anyone weaning a skirtt You have to race around a track on a sci-fi, turbo-charged bike — just watch out for other mad bikers, they drive like maniacs and will bump you off the track, slow you down and cause fatal crashes if your reflexes are anything like mine! Definitely a game for traince Hell's Angels.

Roller Aces and Vastar, both from Streets Manufacturing were two games new to the industry. In the excitement and graphics stakes I'd rate Roller Aces over Vastar. In Roller Aces over Vastar in Roller Aces who has to negotiate an obstacle-filled track while being purious build by how heavies well.

We're not one of those magazines who thinks everything happens in London you know! A few everything happens in London you know! A few weeks ago we packed our bags and braved the frozen wastes to visit Blackpool where the big little was the latest that the property of the latest arcade games and some brand new ones too. The undoubted hit of this year's show was Atlart's Fierdox—the long wasted laservided wasted that the latest arcade growth of the latest property of the latest p



An unusual game with a 30 effect, it's basically a shoot-lemup with a difference. You control the Jetman, hovering in mid-air with the help of a power pack, who has to light off waves of nasties coming from the right of

almost cult status in the UK over the past six months. The ever popular theme of

motor racing games was fully represented with a wide selection of games available.

Sega's Up 'n' Down is a light-hearted driving game which puts

hearted driving game which puts you in charge of a W. Beetle'— hardly a racing carl The track seems to be suspended in mid-air and, as the title suggests, goes up in down a mountainor readway. The car also has the amazing ability to jump other cars and to leap the gaps where parts of the track have fallen into the unknown.

Laser Grand Prix from Taito is at the other end of the scale for those do or die drivers who for some reason haven't taken their tests or wouldn't be allowed on the reads because of their dangerous driving.

It's a laser video game which features actual film of the Mount Fuji race circuit in Japan with your car composed of computer generated graphois

Ataris TX-1 is possibly the most sophisticated racing simulation game on the market to date. It incorporates three video screens and the driver sits in a cockpit-style booth. The centre screen shows the race track whilst the left and right screens act as wing mirrors. It's a thrilling

Spy Hunter is one of Bally! Midway's new releases and is vaguely reminiscent of the movie, The Italian Jab. The inevitable car chase ensues with you, the good guy, trying to out-run a whole bunch of baddies.

You're the driver of a superduper, 007-style car which is equipped with machine guns and can lay smoke screens and oil slicks. These are lethal to anyone following you — and give you a better chance of getting away! At the beginning of each new section you've got to drive into the back of a moving weapons van to be fitted with a new weapons system. Sounds easy? Just wait till you try driving into the back of a van that is moving at a steady 50mph with a bunch

Bally's Discs of Tron, a spinoff from the movie Tron, was also heavily featured at the show and is based on a scene in the Walt Disney film. Tron

Standing on disc-shaped platforms, you throw lethal discs at your opponent and knock him off his platform before he gets you. You begin the game with just one platform to stand on — but in following screens the number of platforms increases and Tron platforms increases and Tron



has to jump from platform to platform to survive. A great new

In The Tin Star from Taito, tables and chairs crash to the floor, bottles spill their valuable contents into the dust and the air is thick with the blue haze of

You are the sheriff of a small outpost in the Wild West and your once clean and god-fearing town has been overrun by the meanest, nastiest crowd of drunken no-gooders you've ever

It's no easy job getting them out of the saloon — but don't let the fact that it's one against twenty deter you. With guns blazing, you march bravely into the saloon and the action begins.

Bandits at 3.00 — get ready lads! M.A.C.H.3 from Mylstar is a laser video shoot-em-up and one of the first laser games to





ground throughout the whole game.

You are the pilot of an F-15 fighter jet and your mission is to prevent enemy forces from gaining air supremacy and to bomb important military installations.

A synthesised voice offers advice on which installations to blow up. Dog-fights in the skies follow. You'll fly over some amazing scenery — all the film was shot by a stunt pilet in the States and includes deserts, mountains, secret shipyards and dams. Possibly the foremane of Ataris Firefox, MA.C.H.3 is certainly a force to be recknowd with in its own right.

Exidy's Crosshow is an arcade/adventure laser game where you guide a group of travellers over hazardous land-scapes to the castle at the end of your quest. A crossbow-style weapon is placed outside on the cabinet and you use this to shoot the many undesirable characters who lurk in unexpected places and pose a threat to the travellers.

"May the force be with you."

May the Force be with you, Luke", whispers the voice of Obi-Wan (Ben) Kenobi as Luke, in his X-Wing fighter, prepares to destroy the Death Star and obliterate the evil Darth Vader.

the evil barth Vader. Set in the depths of space with linear graphics, you'll have a hard time just avoiding the Dark. Side's Tie-Fighters, let alone dropping a bom in the only dropping a bom in the only which was not a side of the property of the proper

## **NOW PLAY THE MOVIE!**

#### FIREFO:

Well, it's finally here. Firefox, the game everyone had heard about and no-one had seen, made its first appearance in the UK at Blackpool last month.

Atari has successfully managed to keep Firefox under wraps over the last year and this fact alone has generated a huge amount of interest from their curious competitors, distributors and traders. But now the suspense is over.

pense is over.
Atari claim that Philips designed the laser player exclusively around Firefox. The disc is scanned at such a speed that there is a smooth transition from scene to scene, thus eliminating the irritating 'dead' area round in many of its predecessors which

is Certainty an improvement. It was worth waiting for. In a cabin styled on a jet cockpit, you'll be able to pluy your personal stereo headphones into the special jacks fitted and immerse yourself in the game, where the exciting and realistic sound effects increase the overall impression of a hair-raising flight out of Russia.

The trailer to Firefox is taken straight out of the film of the same name which starred Clint Eastwood. This and a simulated voice-over explaints your mission. The development of the Firefox plane has taken the Soviet Union only three years instead of the expected ten years. To protect vital national security interests and to learn what makes it so advanced, the United States must acquire the plane before the Soviet Union begins mass.



a production. You've got to steal tit." Whilst listening to this exsplanatory dialogue, some great action sequences from the movie are shown on screen. Firefay starts off with the

Firefax starts off with the sound of turbo jet engines increasing to take-off speed. Within moments you're airborne and flying over the mountainous terrain of the Urals in your stolen
MIG-31.

your MIG is composed from computer-generated graphics superimposed on real film. Furthermore, Clint's voice is heard throughout the game,

offering advice, instructions and words of warning to you, the pilot.

Other fighter jets, including prototypes of the stolen MIG-31

Other fighter jets, including prototypes of the stolen MiG-31 will be scrambled with instructions to destroy you. Beware the tracking systems and infra-red radars — they'll quickly pinpoint your position if not eliminated.

Fuel — or lack of it — is a

prime factor in getting out of Russia alive. There are various refuelling points en route in the icy wastes of the arctic icepack and it's in these areas that Russian surveillance will be concentrated.

An action-packed game with superb sound and graphics, Firefox is the first laser video using footage from a commercial feature film. It's fast and addictive and you can expect to see it in the arcades within the next couple of months.

We saw a prototype version at the Blackpool show but Atari tell us that now some extra screens have been added to make the

The machine's in-built brain can now recognise just how good you are getting at the game — depending on the number of kills you make.

Screens featuring fog, night flying and even an "infra-red" mode have also been added plus a glimpse inside the cockpit!

sion is only out and about in the States — but watch out for Firefox in your local arcade.



Several newish pinballs were on show at the Blackpool arcade show from the major manufacturers. Gottlieb, or Mylstar as they now like to be known, had two newies at the show called Ready, Aim, Fire! and Rack em

Read, Aim, Firel is a pretty basic pin with a fairground theme. It's based on one of those target shooting booths you find at any fair. It has five pot bumpers, three at the top, two at the lower end of the playfield, and several skill targets and up to

four players can compete. It's not a bad game to play and pinball regulars should be able to reach high scores without too much trouble. The backflash and playfield artwork is pretty basic and old fashioned, however, and might put a few people off.

Gottieb's other offering, Rackiem Up followed that age-old pinball tradition of basing the game on a Pool theme. Once again it's a standard game with a pretty standard playfield layout. Gottieb Mylstar don't seem to want to be very adventurous! Howeyer, Rack-em Up is a playable pin that is worth forking out a few 10 pences to try out.

Williams' Firepower II. This is a rejigged version of the original Firepower machine with a split level playfield and lane change.

Frepower I include the "bonus hold over". If the player manages to light up any of the three-banks of target lights, he then has between 7-10 seconds to activate the "bonus hold-over" by "going into orbit"! When the ball drains by you not only score the bonus but a chance for more points is carried over onto the next hall.

Completing a three-bank and going into orbit twice with the same ball scores 25,000 — a nice trick to impress the local pinball wiyards!



DOOMSDAY CASTLE





BOOG-A-BOO

### **FANFARE** FOR THE

Every now and then a game ary, so full of new ideas that you know it will be a winner the minute you set eyes on it. Boog a Boo is one such game.

Set in a world of weird and wonderful vegetation, you play who's fallen down into a deep chasm and is trying to escape. You must make the flea jump onto the numerous ledges in the cavern in an effort to escape to

You control Boogie by tapping the joystick making him hop, skip or jump according to the strength. The graphics are breath-taking - easily the best to come from a British software

The game requires timing and co-ordination rather than a fast firing action and is addictive and frustrating in the extreme. The whole C&VG team fought over it for three days - a record equalled only by Mattel's Burger Time.

Boog a Boo doesn't have the cavern to himself - hungry pterodactyls fly around waiting to



ROBOTRON



MANIC MINER



is up for poor old Boogie. Breath-taking graphics, perfect animation and a fresh and original approach to game de-

sign have been combined to produce yet another top rate game for the Commodore 64

Boog a Boo is available from Quicksilva for the Commodore 64 and Spectrum and costs £7.95 for

the 64 version Getting started

Graphics Playability

Walne

#### **ATARISOFT** BOUNCE BACK ROBOTRON

I wouldn't have believed it if I I had always considered a good But Atari have worked what can only be called a miracle on the

Atari have bounced back after a disastrous year when they lost millions of pounds on their computers. They have made a very sensible decision to convert all their top games software to other micros. All the Atari titles like Pac-Man and Defender have not only survived the transfer to the '64 but are much improved be-

Robotron is set in the year 2084 A breed of free-thinking androids have rebelled against the human race, determined to utterly destroy their oppressors destructive mutants. As the only human immune to their programming, it's up to you to save the last few surviving human fami-

Armed with an anti-robot laser, you must lay waste to armies of androids beseiging your futuristic city or face the unthinkable prospect of total extinction of the human race.

You can fire and move in one of eight directions. But the direction of movement and firing is independent, so you move up the screen by firing left, right or downwards - just like the original.

Only a handful of human clones remain on Earth. You must



such as many as you can to place them under your protective powers, but you'll have to be careful because the Robotrons know of your existence and

The attention to detail in the game is incredible and it's difficult to spot any difference between the graphics of the original arcade game and Atarisoft's version for the '64. Robotron incorporates nine levels of difficulty. Playing anything apart from level one is futile - unless

you're Superman - it's so diffi-

The player can use one of two stick to move and fire or two ing your man. Robotron 2084 is a triumph and any one who claimed Atari were washed out and no longer a major force in computer software will certainly

have to eat his words! Robotron is manufactured by

Atari stockists for £19.99 Getting started Playability Graphics Value

#### KONG **BOMBS** OUT! DONKEY KONG

TI owners have been having a

rough time of it lately with the announcement that the company computer and the continued shortage of affordable software. This review won't add much cheer either, I'm afraid.

It concerns a game called Kong - of the donkey variety. Texas gamers have been crying out for a decent Kong game for ages, but alas this offering from Timeless Software doesn't fill the

Pure frustration was the main feeling after trying to get a

The game does have an origin-

al twist that adds difficulty. As you get onto the second plattowards the girl. You have to rescue her before it touches her and detonates.

At £7.95 this game is not really up to professional standards many of our TI readers could write a better Kong game themselves. If you are one of these people, then why not do your fellow TI owners a favour and send it in to us for publication

 Getting Started Graphics Playability Value for money

#### VERITABLE FLOOD OF MINERS!

MANIC MINER better than the original, but it's

generally agreed that that's the case with Manic Miner Originally, it was programmed on the Atari and called Miner 2049er, and your job was to ex-

The idea was then . . . well, er, by Bug Byte as Manic Miner. which has proved amazingly popular. This game has 20 screens as opposed to Miner 2049er's dozen, and, as well as some rather clever programming. there are some funny and orio inal ideas in there.

Each screen is different, and features such hazards as Maneating Toilets, Mutant Telephones, Bouncing Cheques and

Now, after a few delays, the hit game is available for the Commodore 64. It's marketed by Software Projects, headed by its author Matthew Smith, who, I'm told, is really big in programm

Recently a flood of Miner-type games has hit the software market. Owners of 64s can now try their hand at China Miner, produced by Intercentor Micros

This game has 30 screens, but unfortunately is not a patch on Manic Miner. The graphics lack the small detail of the Software Prujects game. Instead of the occasional pun on other programmers' names and games, most of the screens here are in that vein

There are Jumping Jeffs in there, bouncing VU meters (as in Revenge of the Mutant Camels), Mutant Hover Mowers and also Spectrum puns, like Loony Jetman. In fact, there's not much originality at all.

Manic Miner, by Software Projects, is almost identical to the Spectrum version. It even has the same sized screen as the Sinclair machine, with a large unused border surrounding it. Still, apart from the waste of space, the game's great.

Mutant Telephones are still there, and so is Eugene's Lair and all the other screens which went to make Manic Miner a 20-screen wonder for the Humble Spectrum, previously with nothing good to its name except

the Hobbit. So if you're after an arcade game which you won't tire of for a long time, then Manic Miner's recommended. Control is easier and graphics are better. Although China Miner has more screens (and they're much more difficult), it's not such a playable

Getting started
Graphics
Value
Playability

China Miner Getting started Granhics Value Playability

continued on page 30

6

8



continued from page 29

#### **FLYING FORTRESS FAILS**

#### **7AXXAN**

With the many hundreds of games now available for the game that ever saw the light of day has been converted for use

One exception to this though - is Sega's graphically superb game - Zaxxon

It is probably because of its exemplary 3D-style graphics that the software houses have, so far,

Now a new software house, Starzone, has been brave enough to make an attempt and they ought to be congratulated for taking on such an adventur-

ous project That is where the congratulations have to end as the final product is far from satisfactory.

The ship is a crude graphics block and moves in jerks - none of the smooth scrolling graphics

slow taking several seconds to move across screen and connect with the target.

The lack of speed also makes it too difficult to fly over obstacles - which is intentionally difficult in the real game - but annoyingly so in this version.

The ground-to-air missiles feature of the arcade game are also crude - like pipes coming

Sound effects are also poor an odd clicking sound as the missiles move at a snail's pace

Anyone who has ever seen arcade Zaxxon knows what a ly this home version does not reproduce the feel of the game. or come close to its excellent Available at £5.50 from Star-

zone of Wantage. Getting Started Graphics Value Playability

#### **JET POWER JOGGER IS** A GEM!

#### JET BOOT JACK

the star of English Software's latest offering for the Atari range happily collecting musical notes in a Manic Miner-style world of elevators, conveyor belts and assorted nasty bugs.

The game may not have the most original theme in the world but Jack is a little graphic gem. He wears a jogging baseball cap and "Walkman" headphones!

The action takes place in the Record Pressing Plant and Jack's one aim in life is to collect enough musical notes to create the greatest music collection in the world! Not much to ask. There are ten multi-level screens and the game features five skill levels with varying hazards and

Jack jogs on his way using his amazing jet-boots and these need refuelling from time to time. into one of the several fuel pods dotted around the screen. The there in lights alongside the game ends if Jack runs out of

You get bonus lives if you

score 10,000, 30,000, 50,000 and 80,000 points - but it should take you some time to reach that level of skill. Unless you've already beaten Manic Miner, that is! Oh ves. you also get a points bonus for completing a screen.

There is a high score feature with a read-out on the display at the start of each game and on the top of the screen as you play. And the loading display - feeturing Jack again - is neat!

the joystick and it will take a bit of time to get used to the ducking and jumping actions. Jack kills bugs in the plant by jumping up and down on the level above the little creatures. The fire button makes him duck under any overhanging obstacles that might block his path. Once you've mastered these controls you'll be off and enjoying yourself.

As I've already said, Jet Boot Jack is not the most original game around - but I found it quite addictive and enjoyable and can't wait to get back to take a crack at reaching that tenth

Jet Boot Jack comes from on cassette or disc for the Atari 400/800 and XL range at a barable now in major high street

 Getting started Graphics ● Value Playability

8

8

#### DON'T GET MAD, GET EVEN!

#### DOOMSDAY CASTLE Zippy is my tip to become the

games. His name will soon be up other greats like Miner Willy and Many of you will already have

encountered Zippy in his first game - The Pyramid. Following tasy Software have rushed out a sequel with no apparent concern at typecasting their new protégé.

Doomsday Castle follows the

now familiar pattern of the You have to negotiate our hero through no less than 75 intercon-

Ultimate do not have a monopoly graphics. This is the prettiest game I've seen since Pssst!

frustration and I for one am determined to get even with that

Available now at £5.95 from most good software shops

 Getting started Graphics ■ Value Playability

#### A CHARIOT MADE **FOR TWO** CHARIOT RACE

gone out of fashion recently. In the Atari VCS's heyday, almost every other cartridge Atari released for the machine needed two people to play it.

But games on computers have player pitted against the computer in inter-planetary war or gob-Race for the Vic 20 provides a refreshing change by letting you

and mate try to kill each other! The game is set in a suitably barbaric era - the height of the Roman Empire - and is, as the title suggests, the Indy 500 with

The aim of the game is to avoid running into the back of other chariots and to try to push your opponents into the walls of the horses's honves

The graphics are good and Vic's big brother the '64. I can one - well good Vic games are few and far between.

Chariot Race is available by mail order from Micro Antics or high street retailers for an asking

 Getting started Graphics ● Value Playability

continued on page 32



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continued from page 30

### A GAME TO **MELT YOUR**

#### THE SNOWMAN

ou've seen the cartoon on Channel Four. You've read the book. Now play the game!

been turned into an arcade-There are also plans to computerise Raymond's other books -Fungus the Bogeyman and the version of the aftermath of nuc-

Getting back to happier things, To do this, you must travel round a Manic Miner-type of screen collecting little heaps of snow. You then drop them over a up and gradually take the shape

Once the snowman is comask you to equip him with hal-Travelling around the screen

with you are some flickering flames, just like that character from the gas adverts. Running into one will do you no harm at rying some snow then it will melt

You can get round this probyou extra points.

You'll also need to find regular evel ticks away at the hottom

just like Manic Miner. As the game is set at Christmas there

I liked this game a lot. The graphics are great - and the title screen's got a wonderful at while the game loads. It's very playable, although I often found in the columns before he can

If, like me, you're one of those who can't stop singing "We're walking in the air . . .", the theme tune from the film, all day then

The Snowman is produced by Quicksilva and runs on a 48k

8

 Getting started Graphics

Value Playability

#### LEAP THAT LADDER AS LENNY LEGGIT

The simple ideas are always the

has kept to that idea with Leggit, program are very simple, it's de-

screen. Above you are eight thin screen like a wide ladder. Small gaps of about an inch in length along the lines. When one appears over your head, you rung. Apart from this key, your

The problem arises from the fact that once you're away from just above you but also on the

standing. If you see a gap com ing towards you, then you can move left or right to avoid it When you go off the side of the screen, you'll reappear on the

> The other infuriating point is that when you lose a life (by head, or by falling down to the for about five seconds. During

You can often fall down by lucky and fall down only one or

On the original Spectrum vering Jack), there was a poem which unfolded itself a line at a version though, as the poem how long it took to find out).

though. After each screen a tween the lines. These are deadly and will cost you a life if

They say that a game is judged I spent most of an afternoon trying to get to the top on the first. addictive quality was lost after

The Dragon's got the right keyboard on which to relieve your frustration when you go knocked down by five levels! Remember, on a Spectrum no

available from Imagine software

Graphics Getting Started Playability Value

#### GLITTERING **GAME FOR** THE BEER

DIAMOND MINE

game for the BBC B. You are in to dig up diamonds from the Once you begin loading the

instruction page which comes up

pipe-laving machine - and you have to guide this pipe to the nooks and crannies where the store at the top of the screen so you can see just how rich you

the game action quite addictive. although you'll have to spend some time mastering the four

If your pipe hits any of the the screen and you'll have to start your search for diamonds all over again.

Diamond Mine is a game of Grimsby and will set you back £4.95 - a really fair price for this

 Getting started Graphics Value

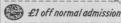
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the same order as they appear on the tape. The number to dial is 01-278-3881 - but remember there is bound to be a rush to the telephones so don't panic if you can't get through at first. We're holding the competition open until April 16th, so you've got plenty of time to call in and listen to the

4. All the fun of the fair?

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Coleco owners out of the C&VG memory bin with correct answers to our hotline quiz will cartridges for their home video system. But don't feel left out if you are an Atari VCS owner - as you know, Coleco also make games cartridges for your machine, and we've got 25 brand

The phone lines will open at 10

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Atari VCS

## GAMING



## THE PLANET PROTECTORS ARE THE PROBLEM!





The opening screen shows the Chasn

Blast those Planet Protectors!

Welcome back to the wonderful world of video-games. I'm Professor Video. — Computer and in the professor is the computer and in the art of vinning and master of alen bashing! This issue, I'm taking a look at a game for that wonderful box of tricks the Vectore. The game is called Cosmic Chasm and must be one of the best games for the home video system that comes complete with its own screen and a nicel line in vector graphics.

Cosmic Chasm is a game of strategy and skill. The aim is to pilot a space craft to the centre of an enemy planet, plant a bomb and escape. Sounds easy — but believe me it takes some doing! To reach the centre of the

To reach the centre of the planet, your ship has to pass through a number of caverns within the planet, each defended by Planet Protectors and force fields.

The game starts when you see a map of the different routes you can take through the planet to reach the central cavern. You must pick the quickest route and memorise it before you enter the first cavern — where the Planet Protectors wait. As soon as you enter the cavern, these little craft swarm towards you.

You are armed with twin laser blasters and a defence shield. Use your lasers to shoot the Planet Protectors, but if they get too close, press the shield button on your Vectrex controller. You can't shoot while your

shield is up, but the Planet Protectors will bounce off it, giving you time to drop your shield and blast them. With some practice, you can become skifful at bouncing and shooting. A very satisfying pastime! Don't take too long over defeating the Protectors — the core of each

Another cavern and yet more Protectors. Use your shields wisely.

Protectors — the core of each cavem is gradually expanding and will make manoeuvring a real problem. Once the Protectors are out of the way, move to the exit from the cavern that will take you onto the next on your planned route.

Don't take the wrong one

otherwise you'll be lost in a maze of corridors and caverns! Each exit is protected by a force field. This is where your ship's drill attachment comes in. And you thought it was for some do-it-

The final casen. Lay year bomb and get not quick!

t yourself in space! Carefully maneeuver your ship up to the force field with your drill running and bore a hole through it. Once t you've successfully done this, you'll be moved automatically to the next cavern — where yet is more Protectors wait!

Repeat the process in all the caverns until you reach the central core. Here the Protectors move more quickly, so you'll have to be on your toes otherwise you'll soon find yourself back at the start of Mission One! So, you've managed to wipe

so, you've managed to wipe out the central core's Protectors have you? Well now comes the difficult part! Move as close to the core as you can, line yourself up with the exit you intend to use, and then plant the bomb. As soon as the bomb is

planted, the 15-second countdown begins, so if you take a wrong turn on your way out you are wrong turn on your way out you are done for. You'll end up fighting Pretectors instead of making for the exit and be wriped out in the blast! Just go out the way you came in — hopefully you can remember it — and everything will be OK! That is unless the cores in the caverns you have panded enough to make manpanded enough to make manparticle enough to hope you up beyond that 15-second time limit.

If you manage to escape the doomed planet before the blast, you'll move on to the next mission — with a longer and more tortuous route to the central cavern to deal with.

Cosmic Chasm is one of my favourite Vectrex games. I hope these hints will help you get the most out of it! More hints next time. See you in May!

Blast the alien planet Protectors quickly! They'll swarm around you — so make sure you've got a spare finger for the shield button





original arcade version and it's

tridges for this machine!

available at around £30.00

if you have an itchy trigger

finger, then I'd go for some-

thing with a bit more action.

THE VERDICT

Action

Theme

Graphics

Addiction

### **GET SOME** SLICK **ACTION!**

Boing! \*£@&! And Q\*bert bites the dust.

Yes, he's back again and this time to haunt the Philips G7000. together with his pals Coily.

Wrongway and the Balls. With three different coloured balls and Slick, the colour-changer, in hot pursuit, Q\*bert has to keep his wits about him as he hops round the pyramid changing the coloured squares by jumping on them. Coily and Wrongway are the ones to watch - they're out for Q\*bert's blood Luckily for Q\*bert, there are two escape discs he can use when in dire straits. If he jumps on to these at an opportune moment. Coily will leap after him straight

into the void. Slick, who's just plain obstructive, makes life harder for the long-suffering Q\*bert as, every time he jumps on a square, it changes colour and Q\*bert has to keep backtracking to change them back again.

As you get further into the game, Q\*bert will have to jump on each square twice to go through two colour changes in one level.

Unfortunately the graphics capabilities on the G7000 portray Q\*bert and his pals in block graphics - rather like little Legocreatures. There are no rounded edges and he loses that rather cute look he has when portrayed on machines like the

However, the game has been faithfully reproduced from the

## **FANTASY JOURNEY** INTO DEEP SPACE

you all know how that famous quotation continues. Now you can take a trip to the stars in one of Nasa's billion pound creations. those video-game innovators

The Atari VCS is the key to this journey into space. The idea is quite simple. You have to pilot your Space Shuttle on a mission to rendezvous with a crippled satellite and then make it safely back to earth and a landing at Edwards Airforce base.

games I've seen on the G7000. But when you come to play the It's a shame more game manugame things get a little more facturers don't make decent cardifficult! When I tell you that the Licensed by Parker Brothers 32-page flight manual, you'll for the Philips G7000, Q\*bert is perhaps get some idea what I game for the Zap! Boom! If you like cute games, then Pzzzano! brigade. The nearest this one is for you. However thing to it are those flight simula-

> The package also comes with al switches. This turns the conpanel for your "shuttle"

You can play the game in one of three ways. Game one is described as an "autosimulator" What this means is that you can forget about the consol controls and concentrate on your joystick manouvres - at the same time learning about the game.

tor-style challenge which is just like a real flight - except that you never use any fuel and most mission abort reports are overridden by your "onboard computers"

Flight, or rather game, three is an actual unassisted Space Shuttle flight. What this means is that you're on your own when it comes to making all the impor-

After several "training" flights you'll be ready to take on a full flight. You have to dock as many times as you can with the satellite - this gets more difficult after each successful docking manoeuvre.

If you manage to make it back an overlay for your Atari's sever- to earth and land you'll get a flight ranking. You could become anything from a simple Payload Specialist to a fully fledged shut-

And, as with all Activision



111









special Space Shuttle pilot wings if you manage to dock six times with the satellite during one flight and get that coveted Commander

ranking! Each part of the flight, launch. complex game in itself and will keep you entertained for hours - if you are prepared to take time to learn the game that is. As Space Shuttle is not a regular

video game shoot out. There's just not enough space here to go into the game in full suffice it to say that this reviewer enjoyed attempting to play it im-

mensely. How authentic is the game? Well, the booklet features a brief article by the author Steve Kitchen who is pictured sitting in a Nasa Shuttle simulator. He says that he got a first hand look at how the Shuttle works and that his cartridge is as close to the real thing as is possible. But does it ever lose any satellites. completely. I wonder?

The best "serious" game for the VCS around. It will take some time to master - but it's well worth it! Action

Graphics Addiction • Theme

LOOPING THE LOOP!

If ever you had cause to question the impartiality of Joystick Jury. it may be now, so I will openly declare my interest.

I love this type of game up before the jury - Looping for ColecoVision. It is the type of game where you have to shoot, move and manoeuvre your craft around obstacles and through narrow gaps.

The immense popularity of the with the arcade game Scramble. Looping takes the basic fun element of Scramble a stage further. You control a tiny craft

which you have to manoeuvre through a cavernous network of blue pipes. To open up the gate blast the ground-to-air rocket sitting on the launch pad.

In order to get a clear shot you will have to loop the loop to dodge the balloons floating up

What's more, your ship is relatively small, making the pipe network seem like a vast maze.

I really enjoyed playing Looping - despite the fact I did not blue tree of paths.

My only gripe is, as usual, not with the piece of Coleco softsticks - which are at their worst careful manoeuvring is required.

The good news is that Coleco have now developed a new super joystick which will be in

THE VERDICT Addictive fun for your Coleco. If you've already got Donkey Kong Junior and O\*Bert, this is worth considering at £29.99 Action Graphics

### NOT SO SUPER CHOPPER!

Addiction

• Theme

As an avid Scramble fan, I was looking forward to plugging Super Cobra from Parker Brothers into my Atari VCS. But be warned - this chopper is definitely not Blue Thunder!

Super Cobra follows the standard Scramble format. You fly your helicopter over an everchanging landscape, through caverns and over skyscraper cities, meanwhile rockets blast off from the ground to shoot you out of the skies, guns on the ground fire at you and, on some screens, flying fireballs and deadly airborne mines add to the

The Parker version of this now famous game includes eleven screens and in the eleventh you have to swoop down on the target of your flight - the trea-At the top of the screen you'll

see a level/mileage indicator which tells you how far you are in the Cobra system. As in Scramble, you blast fuel dumps to keep your craft in the air.

Points are scored by hitting various targets along the way and you get 900 points for every stage - or 1,000 miles - that you manage to complete. You get a 5,000 point bonus if you pick up the treasure.

The game can be played in three modes, slow, medium and fast and you can start a new game where you finished a preceding one by quickly pressing your joystick fire button after you've lost your last chopper. You can also freeze the action by pressing the TV type switch to the B/W setting.

really not that great and the sound effects not that exciting. Having said that you do need to have pretty quick reactions -

even on the first fairly easy stage - to keep your Super Cobra away from the jagged cavern walls, and perhaps with the 'continued" feature, which means you don't have to go back to level one when you've lost your last chopper in level 10, you might not get too bored too quickly. However, you'll probably find a better game for the asking

THE VERDICT Not the most original game in the world.

Action Graphics ● Addiction Theme

### **RACE ACES REV UP!**

Atan's Pole Position must be one of my all time favourite arcade games - and now this ace racing game has been recreated on the Vectrex machine.

Although the Vector graphics can't reproduce the fine detail of the original, this Vectrex cartridge has a good try. The massive Mount Fuii looms large over the race track as you attempt to

qualify for a place in the Vectrex Grand Prix, Your Formula One race car looks good and there's a nice 3D-style effect when you turn corners in pursuit of the other racers.

The Vectrex version even includes the signposts at the side of the track which were an attractive feature of the original.

Game action is fast and the controls are quite simple. You use the joystick to guide your car and two buttons on the controller are used to change gear essential for a quick time around the track. Two more buttons put the power down!

The screen score read-outs are identical to the original arcade version. You are told what gear you are in, what your score is, how much time you have left to qualify or race, your speed and elapsed time.

You get 120 seconds to complete your qualifying lap. But be warned, you need to get a really fast time to qualify for the Vectrex Grand Prix proper, If you qualify, you get ninety seconds to complete the first race lap and if you manage this you'll get 60 seconds to complete the second, third and fourth laps.

Game play continues until you fail to complete a lap in the time allowed or when you have completed all four race laps. If you manage to finish the race, you'll earn a 200 point bonus for each second remaining on the countdown clock.

There is a high score feature included in the game - so although Pole Position is a one player game, you'll be able to challenge your friends! I'm not sure if Pole Position is as good as the other Vectrex

racing game already available, Hyper Chase, but if you like racing games - and Pole Position in particular - you won't be disappointed with this new Vectrex offering. Pole Position is available now and will set you back

THE VERDICT A great game for motor racing fans. But we don't think it's quite as good as Vec-

trex's own Hyperchase. Action Graphics Addiction ● Theme

## Our record stores now come complete with Hunchbacks, Hobbits and Manic Miners.

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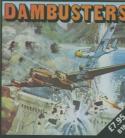
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#### **RUNS ON A COMMODORE**

#### BY ROBERT SCHIFREEN

If you've never tried making music on your 64 then now's the chance to give it a

whirl. This listing will allow you to use the top row

958 END 1888 DIM N(78)

40 A=PEEK(197) 50 POKE 54273,N(A) :POKE54272,N1(A) 55 FOR X=11070:NEXT 50 POKE54276,8:POKE54276,8

1888 DJM N(78) 1818 READ N(57),N(35),N(56),N(59),N(9),N (11,N(16),N(19),N(24),N(27),N(32) (11,N(16),N(48),N(48),N(48),N(51),N(8) 1815 READ N(48),N(48),N(48),N(51),N(8) 1015 HEMPIN(AM), N145/, N148/, N165/, N5 1028 DIM N1(78) 1027 READMA(\$7), N1(48), N1(43), N1(48), N1 101), N1(0) 1030 READ N1(35), N1(56), N1(55), N1(9),

52) N3(8) 1508 BEAD N1(35) N1(75) N1(75) N1(8) N 111: N1(46) N1: 81 124) N1(27) N1(38) 1040 DAFHAS 43 65 15: 21: 22: 25: 28: 36: 34: 3 14: 61: 71 25: 37: 83: 154, 227, 177, 214, 94 1578 DAFHAY 52: 37: 83: 154, 227, 177, 214, 94 175: 126: 198, 37: 172: 138: 149

of the keyboard to produce notes. The whole of the top row is used, starting at the left arrow which gives a B. The number 1 will produce a C. and the

keys.

scale continues up the

The duration of the note is set in a FOR/ **NEXT loop which turns** it on when you press a key and turns it off

after a set time. The time is set in line 55 to a value of 70, but you can change this if you wish to alter the sound. A smaller value will make a shorter.

```
warbling sound.
 1588 PRINTCHR$ (147)
 1510 PRINT"
1520 PRINT"
1530 PRINT PRINT
 1548 PRINT"THE TOP ROW OF THE KEYBOARD W
 1558 PRINT"PLAY LIKE A PIANO KEYBOARD.
1568 PRINT" KEYS ARE ARRANGED AS FOLLOW
1598 PRINT"THE OTHER KEYS ON THE TOP ROW
MILL"
1588 PRINT"PLAY THE NOTES EITHER SIDE OF
```

your way to sounding just like your favourite pop group! Don't believe us? Well find out by trying to win it!

The CN-1000 has stereo sound, 24 different instrument "voices" and an

amazing Stereo Symphonic feature. The CN-1000 also has a live rhythm section! Yes, the drum sounds were all actually recorded in a studio before being crammed into this "state of the art" Yamaha keyboard. In fact the CN-1000 has so many features there's just not enough space here to tell you all about them. Suffice it to say that all the **C&VG** staff want one!

Second prize is equally exciting - it's Yamaha Portasound PC-100 keyboard - which again features the new Yamaha Playcard system. These ingeniously designed Playcards are used to program the PC-100. Stored on each magnetic strip of the Playcard is an entire music score, including melody, rhythm and accompaniment. The Playcard system gives this advanced keyboard an electric brain which means that anyone can enjoy playing this great portable keyboard even if you've never played a note before! If you are an experienced player, you'll still enjoy playing duets along with the programmed tunes. And of course you can always use it as a normal keyboard!

Third prize in our musical extravaganza is the Yamaha PortaSound MP-1, a compact keyboard which comes complete with a built-in music printer which prints out complete musical scores! This little gem has 10 instrument "voices" and 10 rhythms with a tempo control -

you can also play duets with yourself! All this and more! 20 runners-up will receive one of K-Tel's new Doublesider tapes called It's Only Rock and Roll very suitable for all you would-be rock stars out there. In it you have to steer your group to stardom, avoiding crooked managers and making hit records. On the B-side of this tape is another Adventure-style graphical game called Dracula's Tomb - guaranteed to send shivers down your spine! We'll also be throwing in some C&VG "The Champ" t-shirts for good measure and we might just be able to persuade Vince Clarke to give away some of his latest records performed by his new group The Assembly.

As we've already said, all we want you to do is use the music program which is suitable for your micro.

This program makes use of just one of the Vic's sound channels.

It allows you to play a tune using the top row of the keyboard. All the keys on the top row may be used.

The first key (left arrow) has a tone of C and the following notes X keys.

go up in steps of a whole tone. There is no facility for producing semitones in this

version.

The duration of the note is shown on the screen, and can be moved up and down

be moved up and down by pressing the Z and X keys.

```
3000 REM TESTS
9010 IF ME15 THEN POKE 36878,0 POKE198,0
  3080 FEM 18315

3010 IF X=15 THEN POKE 36878,0 POKE

FRINTTU END

3020 IF X=33 AND NL OTHEN NL=NL-10

3030 IF X=26 THEN NL=NL+10
   3848 PRINT"L
                      RETURN - QUITE
   3855 PRINT
   3858 PRINT
        PRINT: PRINT: PRINT
                       NOTE LENGTH= ";NL
    288 PRINT PRINT
  3258 PRINT"PRESS TOP ROW TO PLAY"
  4888 FOR D=170158 NEXT
 5000 6070
 7000 REM INSTRUCTIONS
7200 PRINT" VIC
 7585 PRINT
7506 PRINI
7518 PRINI"THIS PROGRAM ALLOWS"
7528 PRINI"WOU TO PLAY YOUR VICT
7538 PRINI"KEYBOARD LIKE AN"
7548 PRINT"ORGAN.
7545 PRINT"USE ALL THE P
7558 PRINT"THE TOP ROW,"
                             THE KEYS ON"
7555 PRINT
7560 PRINT"/+/ IS A 'C'"
7588 PRINT
7588 PRINT"PRESS RETURN TO QUIT."
7658 PRINT
7788 PRINT"THE LENGTH OF THE"
7888 PRINT"NOTE IS ALTERED BY"
7988 PRINT"PRESSING 'Z' AND 'X
9500 PRINT PRINT
                      PRESS ANY KEY."
3988 IFPEEK(197)=64THEN8900
9888 RETURN
```

## RUNS ON AN ATARI BY JUSTIN WHITTAKER

2500 RETURN

This program will turn your Atari home computer into a simple digital synthesiser. This is achieved by using a feature of the in-built "POKEY" sound chip which allows us to move a loud speaker from fully-out to fully-in—sixteen positions in all.

A machine code subroutine attached to a Basic program will move the television speaker at a fast enough rate to produce a waveform which is audible to the human ear as sound.

A sound is simply a

strikes the eardrum. Different sounds are distinguished from each other by the shape of the airwave. The program will allow you to define the shape of a waveform, which you then play on the keyboard of your computer. Tunes can be played once you get the hang of the layout,

movement of air which

which is the same as a piano keyboard. Playing every note down the keyboard, including black notes, would be, starting from

—,P,0,O,9, I, 8, U, Y, 6, T, 5, R, E, 3, W, 2, Q, 1, © ?,;,] L, [ M, J, N, H, B, G, V, C, D, X, S, Z.

middle C:

Note that any key not on this list will produce odd noises.

Before you run the program, I suggest that you save it, just in case you have wrongly typed in the DATA statements, which will cause the computer to lock up.

When you run the

program you will be asked if you want to play the old waveform, i.e. the last one you typed in. Obviously, the first time you use the program there will not be a waveform typed in, so reply "NO".

Now you will be prompted to type in 30 numbers which constitute the waveform. I've included a few sample numbers below. When designing new sounds, it is a good idea to use graph paper, so you can see the shape of it.

can see the shape of it.
After typing the 30
numbers, (whole
numbers between zero
and fifteen) you will be
asked if you want
distortion added. Type
"YES" or "NO".

Without distortion you will play musical notes, but with distortion you can make sound effects such as tractors, aeroplanes, etc.

To exit the program press "SYSTEM RESET", and re-run the

program if required. You can replay the old waveform by typing "YES" to the first question the computer asks you. Some example waveforms to try are: Example 1: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14

Example 2: 0, 0, 0, 0, 1, 3, 5, 7, 9, 11, 13, 15, 13, 11, 9, 7 5, 3, 1, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0

Example 3: 0, 8, 15, 0, 8, 15, 0, 8, 15, 0, 8, 15, 0, 8, 15, 0, 8, 15, 0, 8, 15, 0, 8, 15, 0, 8, 15, 0, 8, 15,

20 REM (c) Justin Whittaker 1984 30 DIM ANSWER\$(1) 40 POKE 752,1: POKE 710,34: POKE 712,36:? 50 REM Poke machine code into page 8 100 ? "Do you want to play OLD waveform ":INPUT ANSHER\$ 110 IF ANSHERS="Y" THEN 160 120 FOR A=0 TO 29:POKE 702,64:POKE 694,0 130 TRAP 280:PRINT "Enter speaker position number ";A+1 140 INPUT B: IF B<>INT(B) OR B<0 OR B>15 THEN 280

180 PRINT "Do you want distortion added 180 [F ANSHER\$(>"Y" THEN A=USR(1536) 190 A=USR(1541 200 REM Machine code data: 210 DATA 169,0,141,14,212,169,0,141,0,21 2,141,0,210,141,1,210,141,14,210,169,3,1 240 DATA 210,240,242,162,0,240,211 250 DATA 114,136,102,0,0,0,0,0,35,0,31,4 280 DATA 217.243,0,0,68,50,0,57,76,85,12 270 DATA 72,81,37,0,33,0,0,42,0,0,0,153, 280 ? " ERROR ON INPUT. Try again " 300 REM Remember to save before running

#### RUNS ON A BBC

#### BY SEAMUS ST. JOHN

The sound capabilities of the BBC are among the best of any micro currently available, but the sophistication of the system used makes it extremely difficult to get to grips with. You really need to be a

150 POKE 1670+A,B:NEXT A

computer whizz kid and musician all rolled into one.

Muzak for the BBC gets rid of all the programming problems and will let you get on with the important business of playing music.

Single notes or three part harmonies can be played and up to 2000 notes can be stored and replayed at any time. There is also a choice of three octaves - high, medium and

low - which are

selected by pressing one of the first three red function keys. The envelope used produces an electric organ type sound but, if you'd like to change the envelope feel free

12DIMk(19),ot(19) 20DIMMUSIC 2000 BONEXT 100AVE=2:Tiae=0 110 MUSIC=0:FLAG=0 140PRINT TAB (12, 19); "FO=LOW 150PRINT TAB(12,20); "F1=MEDIUM 160PRINTTAB(12,21); "F2=HIGH" 170PRINTTAB(13,22); "X=STOP AND REPLAY" 180PRINTTAB(13,24); "RECORD "; 200\*FX15.1 210IF INKEY (-33) THEN AVE #0: PR 2201F INKEY (-114) THEN AVE =2: 2301F INKEY (-115) THEN AVE -41

240IF INKEY (-67) THEN ? (MUSIC+

ne) =255: PROCREPLAY: CLS: GOT090

270 IF INKEY(k(I)) AND ANCA TO EN PROCS(ot(I)):AN=AN+1 290IF FLAG Time =Time+2 300 (MUSIC+Time) =0 3101F Time>20000 THEN PROCREPL 320UNTIL FALSE 340DEFPROCtitleb 350PRINT TAB(0,1); CHR\$141; CHR\$ 130; "MUZAKKK"; TAB(28,1); CHR#141; CHR\$130; "MUZAKKK" 360PRINT TAB(0,2);CHR\$141;CHR\$ 130; "MUZAKKK"; TAB(2B, 2); CHR\$141; CHR\$130; "MUZAKKK"

260FDRI=1T019

390PRINT TAB(3,5); CHR\$141; CHR\$ 129; "O W E R T Y U I O P-400PRINT TAB(3,6); CHR\$141; CHR\$ 129; "O W E R T Y U I D P" 410PRINTTAB(4,8); CHR#141; CHR#1 33;"A S D F G H J K L" 420PRINTTAB(4,9);CHR\$141;CHR\$1 331"ASDFBHJKL"

450IF AVE =0 THENTPE="LOW"

to do so. 460IF AVE =2 THENTP\$="MEDIUM" 470IF AVE =4 THENTP#="HIGH" 480PRINTTAB(8,15); CHR#141; CHR# 134; "OCTAVE - "; TP# 490PRINTTAB(8,16); CHR\$141; CHR\$

134: "DCTAVE -520 FLAB=-1 550? (MUSIC+Time+1) =AN 560 IFFLAB Time=Time+2

565! (MUSIC+Time)=0 STOPRINTTAB(13,24); "PLAYBACK"; 5801=0: REPEAT 590 ot=?(MUSIC+1):AN=?(MUSIC+1

600IF AND THEN SOUNDAN, 1, ot, 1 ELSE FOR H=1T040: NEXT

630UNTIL ?(MUSIC+1)=255 DR I=6

640FDRL=1T02000:NEXT:ENDPROD 650DATA17,66,34,82,35,51,52,68,36,84,69,85,54,70,38,71,55,87,5

#### BY ROBERT SCHIFREEN

Spectraphone allows you to play tunes 'live' on your Spectrum. You can record the tune by linking the output from the computer's ear socket to the mike of the tape recorder. Alternatively, hold a microphone close to the machine.

When you type RUN, the instructions will be displayed. The top row of keys are the actual notes, starting from C. Originally the bottom note is middle C, but the whole row can be shifted up or down by one octave (seven notes) by pressing the C and V keys. The current octave chosen will be on the screen, where 0 is the starting

position. Positive numbers are higher

octaves and negative numbers are lower ones.

The duration of the note is also printed on the screen during use. It starts off at 0.1 seconds. Pressing the Z and X keys will halve or double the current duration.

Press Q to quit the program, which will also restore the POKES to their original values.

These are used by the program to speed up the keyboard repeat. This means you can obtain a nice warbling

note by setting dur. to 0.0125 and oct. to 2. Maximum and minimum values (before the program crashes!) for duration are between .00078125 and 6.4, and for octave

between -4 and 4.

```
10 REM WUSIC
20 REM C SID YOUR
22 GO SUB S000
30 REM 23351,3
31 POKE 23552,1
32 POKE 23552,1
34 LETT SF=1
34 LOTM N (10)
37 LET d=:1
40 FOR X=1 TO 10
                                                                vg April '848
     40 PUR X=1 TO 10
50 READ n(X)
50 NEXT X
65 SO TO 1018
70 DATH 16,0,2,4,5,7,9,11,12,1
       80 PAUSE 0: LET as=INKEYS
82 IF as "0" OR as "9" THEN GO
0 1000
85 LET a=CODE as-47
90 BEEP d,n(a)+0+s/-1
        92 LET 51=1
95 POKE 23592,20
95 POKE 23692.20
200 5700 90
200 5700 = 12" THEN LET d=d/2
200 5700 = 12" THEN POKE 23521
5. POKE 23562.5 STOP
1010 17 85 12" THEN LET d=d+d
1010 17 85 12" THEN LET 0=0-12
1011 17 85 12" THEN LET 0=0-12
1014 17 85 12" THEN LET 0=0-12
1014 17 85 12" THEN LET 56 2
```

	10,10; "dur = "; d
0/12) 2000 GO TO SO	8,10; "oct = "; INT (
5000 REM instr	MUSIC PROGR
5020 PRINT "	
5025 PRINT	
you to play" 5040 PRINT "sis	s program enables
ngth of"	ple tunes. The le note is variable
15080 PRINT "+L-	octave."
5260 PRINT "7 -	halve duration"
5280 PRINT "C -	double it"
5310 PRINT "9 -	quit program"
	sharpen next not flatten next not
	row of keys is t
5000 DETAIT	
TOOR RETURN	CLS : RETURN

COMPUTER AND VIDEO GAMES MICRO MUSIC CONTEST (Please offich this form to your entry)
Name
Address
Micro you own
Title of your tune

Practise a bit and write an original tune. Then record it on a cassette and send it in to Computer and Video Games Micro Music Contest, **Durrant House, 8 Herbal** Hill, London ECIR 5EJ.

Closing date for entries is May 16th - so you've got two whole months to compose your winning tune.

So get cracking. Vince is sitting around waiting for ideas for his next hit maybe you could write it!



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the Yamaha PC 100 for yourself. If you've never thought you could play, you've never thought of the playcard.

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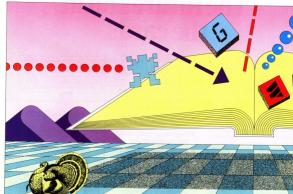


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- Which Micro? & Software Review



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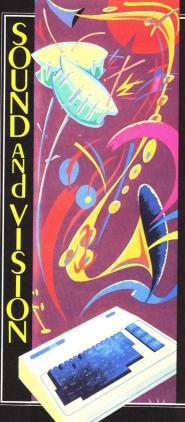
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Try to imagine a disco without a light Iry to imagine a aisco winton a light show. You can't can you! How about a Pink Floyd concert without all the lasers and other visuals. Totally impossible! Well for all these years impossible! Well for all these years you've been sitting at home playing your records or tapes and probably staring vacantly at the wallpaper or the latest pop pin-up posters from Smash Hits. You can change that immediately by simply programi in your very own Sound to Graphics program. Colin Holgate, graphics expert with the band called Mainframe, has come up with some pro-grams which will transform the way you listen to your record collection.

In order to create some graphics that respond to any music, rather than graphics synchronised to just one song, a process similar to normal sound to light methods you see in action at your local disco has to be adapted for your micro. Usually sound is fed into a box of tricks, its frequency worked out and

tricks, its trequency warked out and something pretty happens.

With a computer, the sound is fed into the cassette input, the software works out a value related to the input frequency which can then be used as a variable in a graphics routine.

In the programs on the following pages, the values taken from the cassette input control create kaleidoscopic pat terns or a "spectrum analyser" graph e effect. Machine code must be used in order

Machine code must be used in order to read the sound implif sat enough to reach on accurate pitch-related value. On many current home computer, the most read to read the read of the read

Spectrum works the same way. A sine wave signal coming into the computer will appear as a sequence of ones and

By timing how long it takes for one coming signal to change from one ate to the other, we can get an idea of

state to the other, we can get an idea of its frequency. The timing value could control colour, position or length of a drawn line in your graphics routine — or whatever you with.

For BBC or Electron owners, things are a little different when it comes to the cossethe input. Both these mirrors have dedicated chips that present the computer with complete bytes when they read from the cossette. This makes working and the freewence tricker below.

out the frequency tricky at best.

However, a limited affect can be achieved by simply seeing if there is a sound or not. The program for these computers printed here does someth

along those lines. Even the originator of the program isn't sure exactly how at works — so you'll just have to sit back and enjoy the effects!
Each of the programs require a sound source at the cassette input. This can easily be done, the only problem being that in most case you won't be able to hear the musical But there are two ways.

around this.

Connect your computer to a headphone output on your system that
doesn't cut off sound from the amplifier.

To do this, you will probably need is
simple jack plug adaptor for your computer lead. These are available from all
good his flatore. Sister player has a
bill in microphone, connect it to the

tons posted advin. Hadas remember that connecting a speaker output to your computer is definitely NOT a good idea. These programs will react to any out-side sound source, not just music. Have fun playing around with them!

Since the BBC/Electron pro-gram was written, Basic 2 has appeared for the BBC B. With appeared for the BBC B. With Basic 2, the expressions M%=?FE04+?&FE09 has a different effect to the one intended. For safety, if you have a BBC B, change this part of line 240 to read M%=?&FE09. Likewise change line 260 to read N%=?&FE09 etc.

## FOR THE APPLE II

0E80-						OFB8-				
0E88-	BB				88	OFCO-				E4
						OFC8-				
0E98-						OFDO-				
OEAO-						OFD8-				
OEA8-						OFEO-				
						OFE8-				
OEB8-						OFFO-				
						OFF8-				
OEC8-						1000-	85			
OEDO-						1008-				
OEDB-						1010-				
OEEO-						1018-				
						1020-				
OEFO-						1028-				
0EF8-						1030-				
0F00-						103B-				
OFOB-						1040-				
0F10-						1048-				
0F18-						1050-				
0F20-						1058-				
0F28-						1060-				
0F30-						1068-				
0F38-						1070-				
0F40-						1078-				
0F48-						1080-				
0F50-						1088-				
0F58-						1090-				
0F60-						1098-				
0F68-						10A0-				
0F70-						10AB-				
						10B0-				
0F80-						10BB-				
0F88-				A9		10C0-				
0F90-			F8			10C8-				
0F98-						10D0-				
OFAO-						10DB-				
OFA8-						10E0-				
OFRO-		EΔ			09	10E8-				

## FOR THE BBC & ELECTRON 10 MODE 1 20 PRINT 30 COLOUR 2

40 PRINT

60 PRINT "For BBC Model B and Acorn Electron." 70 PRINT:PRINT:PRINT

SO COLORS SO CONCERNS PROGRESSION SOURCE: PRINTSRINT "igneforably was SO COLORS SOURCE SOURCE

120 PRINT:PRINT:PRINT "Adjustment of the volume control will":PRINT:PRINT "var

the graphic's response."
130 PRINT:PRINT:PRINT "To exit the display press 'Escape'."
140 PRINT:PRINT:PRINT "PRESS RETURN TO CONTINUE.";

FOO A FUEL 140 DERENCE HODEF:END 170 MIDEE 2 180 FOR L = 0 TO 15:VOLIG.L.O,O,O,O:NEXT 180 FOR L = 0 TO 4:38:COLOUR 128+ABS:(10-LX HOD 20)\*ABS:(16-LX DIV 20):PRINT; \* 190 FOR LX = 0 TO 4:38:COLOUR 128+ABS:(10-LX HOD 20)\*ABS:(16-LX DIV 20):PRINT; \*

200 NF PX = 100 THEN FOR PX = 0 TO 15:VOUID-PX,0,0,0,0.0:HENTIGOTO 240 250 NX = "REFEON + "REFEON:UDUID-LX + NX DIV 64,NX HOD 8,0,0,0 270 LX = (LX + NX)HOD 15

## APPLE II: CONT'D

Program notes for Apple II. To save both parts of the listing into one

of the listing into one file, type: CALL—151 (RETURN) AF:EB 10 [RETURN] 3DOG [RETURN] SAVE SOUND TO GRAPHICS [RETURN]

sette systems).
Lines 10 to 80
check the data and
can be deleted once
you have a working

RET DATA CHECKER
POR A = 5709 TO 4530

BOR A = 5709 TO 4530

BOR A = 50090 - B

TEXT : MORE : PRINT \*THERE IS
ATALENTO ONE ERROR IN THE 8

RINT : PRINT : PRINT "ADJUS MENT OF THE VOLUME CONTROL INT : PRINT "WARY THE GRAME INT : PRINT : PRINT "PRESS ETURN TO BEGIN. ": GET AN



## **FOR THE SPECTRUM**

EAR 30999 T 8=31000: T xn=0: LET LET b=0: LET x0=0: LET bs: 90 PRINT PRINT
90 PRINT PRINT
100 PRINT PRINT
100 PRINT TO 7
110 PRINT
100 P

OLD POKE SID OLD LET 1914 IF S/20=INT 18 THEN PRINT 1 SAU LET 10 SKN ORD RETURN SPAUT THEN SIT TO 450 FOR STAND SPAUT THE 18 8 400 PRINT PRINT THE 18 8 400 PRINT PRINT PLESSE CHE 100 STAND SPAUT THEN SO TO 100 STAND SPAUT THEN SO TO

450 INPUT 95

If you don't want to spend time keying-in these listings, the programs can be found on the B-side of the Mainframe single, Talk to Me, available from MCZ Music, 24 Missden Drive, Hemel Hempstead, Hertfordshire.

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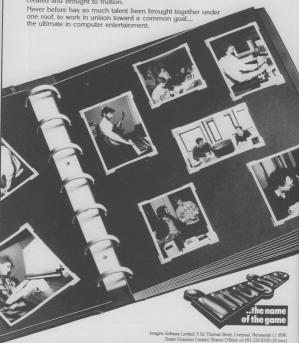
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presents on in lead's root is deathering. The chequired flag is raised and the race has begin. You are driving the world's reversel Formula One racing car in the last Grand Prix of the season and the World Championship lies within your grasp. Yetleral drivers are envious of your meteoric rate to the top of the motor racing sport and will stop at nothing to remove you and your car — Fire Flash 1 — From the circust FOREYER!

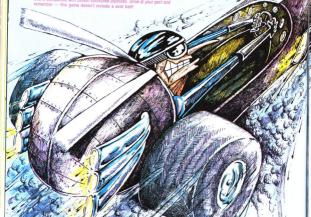
First you must qualify for the race in a time trial lap. The lap must be completed in less than 72 seconds or you'll mise the desiring gold and the above to the race in a time to the laboration of the race in a time to the race in a time to the second or you'll mise the desiring gold and the above to the race in a time to the ra

miss the starting grid and the chance to claim the changionship trophy.

The Grand Prix is run over three laps of the famous Monaco circuit. You must overtake all the other

competitors but avoid running into the grass vergest which slow the car, giving the other chance to ram Fire Flash 1 from behind.

The screen displays a lap-completed counter, a hi-score feature and a lap timer, as well as a view from the driver's seat. The car is controlled using the 5 and 8 key and is compatible with controlled.



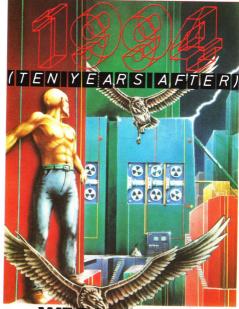
## OSTION OSTION

### BY GARY WHITEHEAD

RUNS ON A 48K SPECTRUM

PAPER 05+4); 14+(005+4) AT 16,14+( 7: PRINT AT 1; INK 6; PAPER 1; I POS= PAPER PRINT AT 18,14+(005+5); PRINT AT 18,14+(005+5); PRINT AT 17,14+(005+5); PRINT AT 17,14+(005+6); PAPER 1; INK 8; BC; PRINT AT 17,14+(005+6); PAPER 1; INK 8; BC; PRINT AT 17, INK 1,14+(005+6); PAPER 1; INK 1,14+(005+6); PAPER 1, RETURN PRINT AT AT 17.14+(905\*6) 17.14+(905\*6) 17.14+(905\*6) 17.14+(905\*6) 17.14+(905\*6) 17.14+(905\*6) 17.14+(905\*6) 17.14+(905\*6) PAPER 1; (905\*6); PA R 8; INK 1; INK 0; F INK 0; F PAPER 1 1+(QOS RPER 6 INK 0; 13+(905+6); 11+(905+6); 11+(905+6); 11+(905+6); 11+(905+6); 11-(9 #7); INK "; AT 0; "F PAPER PAPER 170 LET POS=1 (905+8); PAPER 20,12+(905+8)

41 LET 39-28-7 (186) 30 TO SOOOS 11-4-4 (186) 30 TO SOOOS 11-5 (186)



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90.0 IF SCORE-400 THEN PRINT GIT
2.0 YOU HAVE COMPLETED THE RACE
AND YOU HAVE SCORED SCORE 116
NOTE TO STORE 110
NOTE TO ST 9010 PAPER 5: INK 7: FOR a=1 TO 9020 INK 1: NEXT = \_\_CAC . \_C ABCBCBABBC\_\_\_ C C \_ ": PRINT = 9030 INK 3: PAPER 1: LET bs="\_ CACBACBACBCABCACBACABCBA\_ PRINT bs NEXT \_CAC .\_CBA 9040 PAPER 4: FOR a=1 TO 12: PRI 9050 INK 1: PRINT AT 10 :AT 11,12; "DEE"; AT 12 E"; AT 13,10; "D 19,4 19,4 AT AT 9070 GO SUB 20

9080 RESTORE 9950: FOR a=0 TO 39 READ b: POKE USR "a"+a,b: NEXT 9090 GO SUB 9 9100 GO TO 30 9200 PAPER S 13: TIME AT 9200 3,1) INK 9220 FOR 4=0 TO 10 PAUSE 5 PRI NT AT 6,10-A: PAPER 5, INK 0; "U PAPER 7, INK 0,25 PAPER 5, 9230 PRINT AT 6.0. PAPER 5. INK 9 TO FABER 7. INK 9.75 FOR RS PAPER 9. PRINT AT FOR RS PAPER 9. PRINT AT FOR RS S. PRINT AT 75 IN TO ). PAPER 9240 RESTORE 9998 FOR RS TO TO READ 8. POKE USR USA 8. PRINT 9290 IF start=1 THEN POKE 23572 6. POKE 23573.0. POKE 23574.0 9291 IF 9URL=0 THEN GO SUB 6000 9300 PAPER 7: INK 0 BORDER 0. C LS: FOR B=1 TO 5 STEP 2: PRINT HT B+5 10 ... NEXT B: PRINT AT 7.13; OVER 1; POLE ; AT 10.11; POL STITCH 9300 PAPER 7 STITUM T 13.13 PROGRAM AND TO STANDARD TO 9330 RETURN 9900 FDR a=0 TO 167 READ b. POK E USR "a"+a b. NEXT 8 9910 DATA 0.0,0 SD 8824128.255 255.0.0.0.0.50.247.255,255.0.0.0 24.255.128.192.244.245.245.255.255.0.0.0 9950 DATA 0,24,50,24,50,189,255, 9950 DRTA 0,24,50,24,60,189,255, 189 9960 DRTA 0,0,0,0,1,26,31,7,0,0, 9970 DRTA 7,7,15,223,222,246,214 ,214,224,224,240,251,123,111,107 9980 DATA 255,254,252,248,240,22 4,192 2,128 RETURN 9990 PETURN 9990 DHTR 254,252,248,240,224,19 2,128,0 9999 INVERSE 0: PAPER 7: BORDER 7: INK 0 COMPUTER & VIDEO GAMES 65



Utilities with Your Oric-1. Oric Almos An enemy tank division is approaching. As the last surviving tank er of your battalion, it's up to you to halt the oppo

rizon. Your adversaries have also taken to the skies and are ng down from the clouds in fighter bombers to attack your The whole area between you and the enemy has i y mined, and you've been trapped in the path of the

Undeterred by the overwhelming odds, you radio for help and set out with four tanks to wreak as much havoc as you can. The game has been written in two parts so that it will fit into an unexpanded Vic 20. Each program should be typed in separately and then saved onto tape. The first program loads all the

e FI fra rd vou a bonus tank ear

NT - Number of tanks left M = Missile position S = Score MC - MI -----I\$-L\$ = Convoy vehic

#### PROGRAM ONE

- 10 PRINT"3" :FORI =7168T07679 : POKEI . PEEK (I+25600) : NEXT : POKE52 , 28 : POKE56 , 28 20 FORI=1T088:READJ:POKE7431+I.J:NEXT
  - 30 FORI=1T048:READJ:POKE7631+I.J:NEXT
  - 49 6070199
- 60 DATA24,24,24,24,24,24,24,0,66,60,36,36,60,66,0
- 70 DRTR0,0,2,6,127,127,255,48,0,0,0,124,254,254,252,48
- 80 DATA0, 0.0.255, 0.15, 26, 15, 0.63, 127, 255, 127, 255, 170, 255, 0, 128, 192, 192, 128, 248, 1
- 90 DATA0,18,50,119,255,255,255,102,0,0,63,31,63,255,255,102
- 91 DATA255, 255, 255, 239, 131, 239, 255, 255, 255, 231, 231, 165, 8, 165, 231, 255
- 92 DATA231, 231, 165, 129, 0, 165, 231, 255, 231, 231, 195, 195, 129, 165, 231, 255
- 93 DATA254, 252, 248, 240, 224, 244, 254, 255, 127, 63, 31, 15, 7, 47, 127, 255 100 PRINT"DS MINEFIED
- 101 PRINT"WRITTEN BY S. P. BIRCH"
- 102 PRINT"TRY TO SHOOT CONVOY AND BOMBERS -
- ONLY ONE SHOT BY A 103 PRINT"AVOID THE MINES AND

(0) 38-58

- THE BOMBS" 104 PRINT"PRESS \$/ TO CONTINUE"

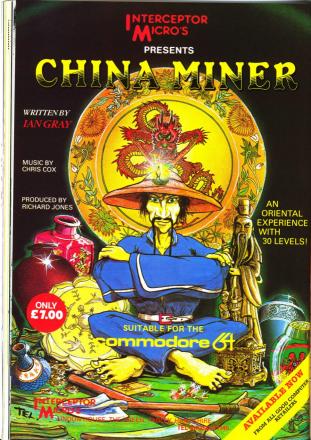
- POINTS VALUE
- 211 PRINT" %8 10-20 79"
- 212 PRINT" >? 20-30 60" 213 PRINT" : 70"
- 220 PRINT"NOW LOAD MAIN PROGRAM TO CONTINUE" POKE198,0

## 10 PRINT"3": POKE36869, 255

- 30 HS=0:POKE36879,157:POKE650,128:POKE36878,15:MC=30720
- 40 I\$=" % ": J\$=" (() ": K\$=" \* ": L\$=" 100 NT=3:S=0:L=8174:M=0:ET=0
- 110 FORI=7680T07897:POKEI,33:POKEI+MC.6:NEXT:FORI=38884T038905:POKEI,0:NEXT 115 POKE7856, 32: POKE7877, 32: POKE7878, 32: POKE7879, 32
  - 120 A\$="
  - 121 B\$="
  - 122 C\$="
  - ":D\$=C\$:E\$=D\$:F\$=E\$:G\$=F\$:H\$=G\$ 190 PRINT"% "S:FORI=7699T07701:POKEI+MC.0:POKEI.34:NEXT
- 200 GOSUB500:POKE36874,128:GOSUB600:IFNT(0THEN800
- 205 GOSUB500: POKE36874, 130 210 X=INT(RND(1)\*10)-2:IFX>1THEN200
- 215 IFP>0THEN230
- 220 [FRND(1)),95THENP=L-309:PV=58:G0T0230 225 GOTO200
- 230 POKEP, 33: POKEP+1, 33: P=P-22+X: IFX>-1ANDFVC62THENPV=PV+1



RUNS ON A VIC 20 IN 3.5K



# It's no picnic!

But if you go down to the woods today, will you help Ted get his batteries?

Or will you get bovvered

Or get the cocktail?

Will you ever reach the 8th round?



Come to that, will you ever work out the scoring system?

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235 POKEP, PV: POKE36875, PV#2+12: IFPV=62THENPOKEP+1, 63 240 1FPC7724THENPOKEP, 33:POKEP+1, 33:P=0:PV=0:POKE36875,0 250 IFPV(60THEN200 255 X=RND(1)\*9: IFX01THEN200 260 PO=PEEK(P+22):FORI=255T0128STEP-1:POKE36876,I:NEXT 270 FORI=P+22TOP+23\*22STEP22:FOKEI,P0:P0=PEEK((I+22):POKEI+22,35:IFI)8119THEN280 275 FORJ=1T010:NEXT:NEXT 280 I=I+43:FORI=IT0I+2:IFPEEK(I)=34THENPOKEI+MC,2:POKE7702-NT,33:POKE7702+MC-NT, 281 POKE+I, 33: NEXT: I=I-3: FORJ=1T030: NEXT 282 FORT=ITOI+2:POKEI,32:NEXT:POKE36876,0:POKEL+MC,0 290 60T0200 500 POKEL, 32: GETX\$: IFX\$=""THEH520 501 IFX\$=","ORX\$="."THEN510 502 GOTO520 510 X=ASC(X\$)-45+L:IFX(8186ANDX)8163THENL=X 520 POKÉL, 34 550 IFM=0THENML=L:IFPEEK(197) \cap 32THEN590 560 IFMOITHENX=ML-(22\*M):POKEX,MO:POKEX+MC,C 570 M=M+1:X=ML-(22\*M):C=PEEK(X+MC):MO=PEEK(X):POKEX+MC,2:POKEX,35:POKE36877,255 575 IFMO>35THENGOSUB700 580 IFM>20THEN:POKE36877.0:M=0:POKEX.MO:POKEX+MC.C:IFI>90THENFORI=1T0100:NEXT 590 PETURN 610 Hs=Gs:Gs=Fs:Fs=Es:Es=Ds:Ds=Cs:Cs=Bs:X=INT(RND(1)\*10+1):Bs=RIGHT\$(Bs,(22-X))+ LEFT\$(B\$,X) 620 A\$=RIGHT\$(A\$,21)+LEFT\$(A\$,1):IFLEFT\$(A\$,3))" "THEN630 621 TERIGHT\$(A\$,6))" "THEN630 ":X=RND(1)\*5+1:0NXGOSUB691,692,693,694,695,690 622 X\$=" 623 A\$=LEFT\$(A\$,17)+X\$ 630 IFPEEK(L-22)(36THEN680 640 POKE36877,128: POKEL+MC,2 650 FORI=1T0900:NEXT 660 POKEL+MC.0:NT=NT-1:POKE36877.0:POKE7701-NT+MC.6:POKE7701-NT.33 680 PRINTES: C\$; D\$; E\$; F\$; G\$; H\$; 690 RETURN 691 X\$=I\$:RETURN 692 X\$=J\$:RETURN 693 X\$=L\$:RETURN 694 X\$=K\$: RETURN 695 RETHEN 700 C=2:M=22:POKE36877,128:FORI=1T0400:NEXT 718 IFX>79870RX<7965THEN738 720 I=X-7967:IFI>2ANDI<19THENR\$=LEFT\$(A\$, I-2)+" "+RIGHT\$(A\$, 19-I) 21 I=(MO-36)\*10:ET=ET+I:S=S+I 725 IFET>1000THENET=8:NT=NT+1:POKE7702-NT,34:POKE7702+MC-NT,0:B\$="\$"+LEFT\$(B\$,21 ):GOSUB900 730 IFMO=36ANDS>0THENS=S-5 740 IFMOC58THEN790 750 I=(65-MO)\*10:POKEP,33:POKEP+1,33:POKEP+MC,6:POKEP+MC+1,6:P=0:ET=ET+I:S=S+I:M 760 MO=33:POKE36875.0 790 PRINT"S ISSETURN YOU SCORED "S: IFSCHSTHENHS=S SOO PRINT" TOAME OVER 810 PRINT"HIGH SCORE "HS:FORI=1T0500:NEXT 820 PRINT"TYPE Y TO PLAY AGAIN OR R TO END" 825 IFPEEK(197)=10THEN890 826 IFPEEK (197) () 11THEN825 830 PRINT"3":GOTO100 890 END 900 FORT=160T0248STEF8:FORJ=1T05:POKE36876,I:NEXT:NEXT:POKE36876,0:RETURN

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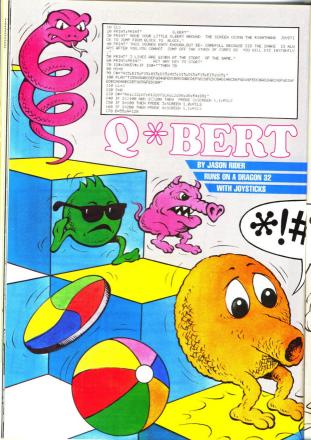
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now with the help of Jason Rider, the cuddly curser has bounced right back for the Dragon 32 - with suitable alterations of course. We're a

family magazine folks! Just like the arcade game, Q\*bert has to leap from square to square on the pyramid changing the colour of every cube. But his life isn't without dangers. Coily the snake and his accom-

plice, the bouncing ball, make life hell for Q\*bert, chasing him across the pyramid and trying to knock him off the edge. Q\*bert starts with three lives and every new sheet has a dif-

ferent coloured pyramid. And remember, don't lose your temper because Q\*bert can be very "\$%"" frustrating.

HS= HIGH SCORE S-SCORE

LL=LIVES B.A-Q\*BERT'S CO-ORDINATES C.D = SNAKE'S CO-ORDINATES





```
190 U=5:W=5:X=5:Y=5:Z=5:UU=5:WW=5:XX=5:YV=5:ZZ=5
```

248 IF U=18 RND H=18 RND X=18 RND Y=18 RND Z=18 RND UU=18 RND WU=18 RND XX=18 RN

260 LINE(C-6,D+5)-(C+7,D),PRESET,B:LINE(C-6,D)-(C+5,D-5),PRESET,B

280 IF H=1 THEN 60TO 388

300 IF BOD AND ACC THEN C=C+15:D=D+30

338 IF BCD AND ADC THEN C=C+15:D+D-38 348 IF CC=C AND DD=D AND ADC THEN D+D-38:C=C+15

378 IF CC=C AND 00=0 AND 800 THEN 0=0+38:C=C+15

388 LTNE(C+6, D+5)-(C+7, D)-PSET, BLLNE(C+6, D)-(C+5, D-5), PSET, B:LINE(C+7, D+3)-(C+7, D)-PRESET;LINE(C+6, D)-(C+6, D-5), PRESET 390 IF JOYSTK(0)=0 OR JOYSTK(0)=63 OR JOYSTK(1)=0 OR JOYSTK(1)=63 THEN 60TO 400

400 LINE(A-6,B)-(A+6,B-7), PRESET, BF:LINE(A-2,B)-(A-2,B+8), PRESET:LINE(A+2,B)-(A+

2,8+8),PRESET 410 [F JOYSTK(0)=0 RND JOYSTK(1)=0 THEN R=R-15:B=B-30

468 IF R=143 AND B=25 OR R=158 AND B=55 OR R=173 AND B=85 OR R=188 AND B=115 OR 9=293 AND 8=145 OR 9=218 AND 8=175 OR 9=188 AND 8=175 OR 9=158 AND 8=175 OR 9=12 8 AND 8=175 OR A=98 AND 8=175 OR A=68 AND 8=175 OR A=53 AND 8=145 OR A=68 AND 8=

478 IF A=83 AND B=85 OR A=98 AND B=55 OR A=113 AND B=25 THEN 818

498 IF R=128 AND B=55 THEN U=18 520 IF A=98 AND B=115 THEN Y=18 IF A=158 AND B=115 THEN UU+18 570 IF R=113 AND B=145 THEN YY=10

580 IF A=83 AND B=145 THEN ZZ=18 599 BUTO 228 688 PLRY\*T25505ABCDEFG04GFEDCBR03ABCDEFG02GFEDCBR01ABCDEFG02ABCDEFG03GFEDCBR04GF

630 DRAWTENZO,20;X0%;":PSET(18,15):PSET(22,15):PSET(28,18) 640 IF LL=2 OR LL=3 THEN DEMAINSHON,20;X0%;":PSET(38,15):PSET(42,15):PSET(40,18) 650 IF LL=3 THEN DEMAINSHON,20;X0%;":PSET(58,15):PSET(58,15):PSET(60,18)

680 LL+LL-1 690 IF LL=0 THEN 60TO 710

BUT YOU SCORED\*:S

740 IF SOHS THEN HS=S THE HIGH SCORE IS": HS 760 PRINT:PRINT" WOULD YOU LIKE ANOTHER 60° 770 AS=INKEYS:IF AS=""THEN 770

798 CLS 888 GOTO 888

838 LINE(A-6,B)-(A+6,B-7), PRESET, BF:LINE(A-2,B)-(A-2,B+8), PRESET:LINE(A+2,B)-(A+

860 IF AC128 THEN A=A-H:B=B+4 880 IF A=128 THEN B=B+2

900 LINE(A-6,B)-(A+6,B-7), PSET, BF:LINE(A-2,B)-(A-2,B+8), PSET:LINE(A+2,B)-(A+2,B+8), PSET:PRESET(A-2,B-5):PRESET(A+2,B-5):PRESET(A-2,B-5):PR 918 IF AC18 OR AD246 OR BD185 THEN GOTO 938

948 FOR J=1 TO 1000:NEXT:60TO 710

9 COSUB998 POKE53288.8 POKE53281.8 POKE646.1 FORDH8T028 POKE5427248.8 NEXT POKE5 10 POKE54296 ) 15 POKE54273 P POKE54277 18 POKE54278 255 POKE54276 129 11 POKE54279, 2: POKE54298, 2: POKE54294, 8: POKE54285, 248: POKE54289, 33: RETURN (FNTRE 12 POWE53365, PEEK (53265) AND 239 POWE646 1 ZOUB PRINTONES (142) CHES (8) 3 8 3 8 3 13 PRINT \*\*\*\*\*\*\* \* 3 TA PRINTIPARE A SECOND 3 3 3 3 S S S **RUNS ON A COMMODO** 18 PRINT R FORT-80039 PRINT - ; NEXT PRINT PRINTIPE (13) \* \*\*\*HIT FIRE\*\*\* A long time ago in a galaxy far away a nasty bunch of 22 ZM=183 FDRT=1T014:PDKE645.T:GDSUB13:IFFEEK(56328)=[11THENT=45:NEXT:PRINT\*#\*:0 Space Pirates, began criticising the colour of a particularly nice planet in the outer 24 PRINT"#": GOSUB13:GOSUB999 POKE54296, 8:PPINT" TOCOGOGOGOGOSBBBBBINSTRUCTINS 78" reaches of Sol System 82. Admittedly, they had been 25 PRINT "MOVE JOY STICK FOR NO OR consuming a large number of 26 1FPEEK (56329)=127THEN26 28 IFPEEK (56328)=111 THEN GOSUB18: GOSUB39999 Pangalacticgargleblasters down at the Asteroid Arms -50 GOSUB10: POKE54280.2 but the local residents of this 60 GOSUB700:LIVES=5 100 PCKE54296 0:005U88998:5N+6:V+53248:PDKEV+1, V:PDKEV, X:FDRG=2T05:PDKEV+G, 0:NEX 99 T1\$="8000000" planet still took an instant dislike to the Pirates and 101 F=PEEK(V+38): POKEV+28,255 POKEV+21,255 POKE54296,15-HE=8 decided to attack their headquarters 102 POKE54273.2: IFLIVES=0THEN600 185 AC-PEEK(V) POKEV+3, 58: POKEV+2, AC POKEV+4, 255: B=PEEK(V+31) : FORD+58T0258STEP4 They launched a supermega-class battle cruiser and set out to find the centre 107 PRINT"B"LEFTS(TIS,2)":"MIDS(TIS,3,2)":"RIGHTS(TIS,2) crystal - the source of all 110 1FPEEK(56320)=1236NDX>20THENX=X-SN 120 1FPEEK(56320)=1196ND(X(250)THENX=X+SN the Pirate's powers . . . So 125 IFPEEK (56328)=126ANDY) (38) THENY=Y-SN starts the saga of the Centre 127 IFPEEK(56328)=125FND(V(225)THENV=V+SN Crystal — a multi-stage game 128 IFHEN-67THENPETURN in which you must complete 149 POKEY+3.0 POKEY+5.0 IFPEEK(Y+30)-PRIDITHENPOKES4276,128 FORE=1TOLD NEXT: GOSUB2 four screens and reach the crystal. 145 IFFEK(V+31)PND1THENGOSUB2880: GOTO188 146 POKEV,X:POKEV+1,Y:IFFEEK(V)>PEEK(V+2)THENPOKEV+2,PEEK(V+2)+3 There are five skill levels, ranging from "my pet budgie 147 IFPEEK(V) (PEEK(V+2)THENPOKEV+2, PEEK(V+2)-3 148 IPPER((241) C=57THENPPINT PRINT "BODDOODSDOODSELL DONE" FORG-1T0488 NEXT B 03UB10100:G0T0200 149 TEPEEK(V) (PEEK(V+4) THENPOKEV+4, PEEK(V+4)-2 150 POKEV.X: IFPEEK(Y))PEEK(V+4)THENPOKEV+4, PEEK(V+4)+2 170 POKE53280.5: POKE53281.5: POKE646.0 ORG REMARKABARAPHRISE 2888888888888888 281 V=53248 POKEV. 8: X=158: Y=238: SN=7: POKE54296, 15 282 S=1824 S0=55296 PRINT" T# F0R0=17021 SB=(27-(8-(t(#2)#2))) PRINT" # TRB(SD=9) 204 S0154230 S41024 (05)18999 HE--C7 POKE54273, 3 POKEV, X: POKEV+1, V: 3K-PEEK (V+31) 215 PRINT" SERBERGERSTAR GATE "" PRINTTAB(18)" # E 238 T=8:F0R0#3T0(15+6)STEP3:T=T+1:ERL1 (T)=0

# EICRYSTAL

RE 64 WITH JOYSTICK

#### BY HENRY O'KEEFFE

could beat you" to "not even Darth Vader and the Force could deal with this!" If you manage to complete one sequence, then you'll start the game again at another

skill level Full instructions are included in the program - but remember to plug your joystick into port 2 before you

dare take on the Pirates! If you want to disable the run/stop key to stop an accidental escape while you play the game, enter the Command POKE809,255. This

also causes the program to be unlistable. Entering POKE 809,246 into the game reverses this process and allows the game to be listed as normal.

235 F0P0=1T07:PN=PND(1):IFPND.5THEND((0)=-1 236 1FPNC, 5THENBX((0)=1

237 NEXT POKE54296.8 F060+55296T0552964999:P0K60.7:NEXT:P0K654296.15:PRINT"9"

249 FOPD=1T07 P(KES+(XP(0)+BX(0))+(BRLL(0)\*440).81 POKESO.083 NEXT:POKE54276.8 255 F0P0=1T07:P0KES+(0P(0)-B/(0))+(BRLL(0)#40).32:NEXT 269 F(E0=[107 [F/P(D)]=(SB-9)0P/P(D)(=3THENB)(D)=-BX(D) :P0KE54276, 129

261 NEXT PRINT'S PRINTLEFTS(TIS.2)" "MIDS(TIS.3.2)" "RIGHTS(TIS.2) 278 FORD=1T07:XR(0)=XR(0)+BX(0):NEXT:XIJ=X:YU=Y

288 POKEY, X: POKEY+1, V: COSUB118: IFFEEK(V+31)-RHD1THENGOSUB2088: GOTO288 281 IF VIKONTHENERIKES4298, 129 POKES4290, 128 282 TE VIJOYTHENPOKES4290, 129: POKES4290, 128

298 TPO 1889-000C=1299-000C=VETHENPOPS-1T016: POKES3281.S: FORL=1T090: NEXT: NEXT: 60T0

295 POKESO, 0: GOT0240 297 GOSUB38888 PEMANANAPHROE 38888888

298 BH-2+(4-DL): X=158 V=53248: POKEV+3, 238 -POKE54288, 8: POKE54276, 129: GOSUB888 299 Y1=40+PND(1)+200 P=PEEK(V+30) F0F0=45T0225 P0KE54273,245-0 300 POKEV+1.0: IFPEEK(56320)=1239N((C)50THENC=X-1 395 IFI THOTHENSOO

319 IFPEEK(56328)=1199NDX(258THENX=X+1 328 POKEY, X:X1=X1+TR:POKEV+2, X1:TFX1>=2450RX1C=45THENDR=-TR 339 [FPEEK (V+38) AND ITHENFORU-110988: NEXT: 0010358

358 POKES4276, 8 POKES4288, 8 POKEV. 8 POKEV+2, 8 POKE646, 8 : FFL1#8THENPRINT"#": 80TO6

368 PPINT": 1000000" POKE53288.5 POKE53281.1 PPINT" VOLU NOW HAVE CAPTURED AN ENEMY 378 PRINT:PR 388 GOSUBCAGOO PRINT"7" POKE53288.8 POKE53281.8

398 POKE2848, 249 POKE V. 158 POKEV+1, 158 395 PRINT\*#": X=178 397 POKE54276, 129: LT=PEEK(V+31)

408 AC=(48/2)-5-A=1 PRINT"#800000000000000000" FORFO=1T0255:PRINTTAB(AC)"# # 485 PN=PNB(1) 418 IFRIO . SANDACO 4THENRO : AC-1 415 IFRNC, SANDACCOSTHENAC=AC+1 428 IFPEEK (56328)=1239NEXC4THENX=X-4

439 [FPEEK (56328)=11999(DXC250THENX\*X+4 425 POKEV. X: POKE\$4273, 255-R0 449 IFPEEK (V+31) AND 1 THE HOOS (R2888 GOT0358 468 F0R0=1T01880:NEXT 464 PRINT" T" : POKE53265, PEEK (53265) AND 239

465 GOSUBSGG :PPINT"#0000" FORT=ITOS9 :PPINT"#-"; :NEXT:PRINT"#050 466 AC -20 FORDR-1TO20 PRINTTRE (AC -DR) - FORD-1TO(DRW2) PRINT"S #1; NEXT PRINT NEX 468 FORV-STOI PRINT - 18888888888888888888888

478 POKEV, 175 FORD-8T0175 POKEV41, 0 POKES4273, 255-(1, 240) HEXT FORT-8T01888 NEXT 473 POWEY @ POWEY+1. @ POWEY+23. 1 POWEY+29. 1 PEM ATS PRINTING FORCESTORS PRECIOES, PERK (\$3055) RIDESS PRINTING TRECOS) A "NEXT TO DO INT SHOOODOODOODOODOODOODOODOODOODOODOO 190 FORO-OTO: PRINT-18888888888888888888 1 3 E" : NEXT

495 PPINT -10000000000 75 499 POKE53265 PEEK (53265)0P16



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1983 GOLDEN JOYSTICK AWARDS



A glittering gathering of software stars congregated at Mortons restaurant, in London's posh celebrate Computer and Video ames' first ever Golden Joy-

stick Awards presentations.
All the top names from the
British software industry were ere — waiting to discover just who would go home clutching one of our coveted Golden Joysticks.

Radio One DJ Dave Lee Travis a self confessed computer fan
 was there to present the
prizes and, as the time for the vards to be announced

pproached, tension mounted among the rival programmers nd software house supremos

alike as they waited with bated breath to hear the news. First up was our Golden Joy-stick Award for the best Arcade Style Game of 1983. Nominations

were Penetrator from Melbourne House, Arcadia from Imagine

stars congregated at Mortons den Stick was received by John restaurant, in London's posh Phillips from Bug Byte and the Berkeley Square, last month to man behind Manic Miner, programmes Matthew Smith Next came the award for Best

Strategy Game which went to The Hobbit, 1983's most popular Adventure. from Melbourne Adventure, from Melbourne House. Other nominations in this class were Football Manager from Addictive Games, Planet Invasion from Microdeal and Scrabble from Psion.

Best Original Game nomina-tions included Psst! from Ultimate Play the Game, Ant Attack, that wonderful three dimensional adventure from Quicksilva Splat! from Incentive, and Ah Diddums from Imagine. Winner of the Golden Joystick in this

category was the game with that cute teddy bear, Ah Diddums!
Moving on to the main award of the day, Game of the Year, the nominations were The Hobbit, Manic Miner, Jet-Pac from UltiAfter a suitable pause for effect. Dave Lee Travis told the assembled multitudes that Ultimate's Jet-Pac was Game of the Year 1983! Ultimate's Carol Ward stepped up to receive the award and thanked all C&VG's 80,000-plus readership for making the game an award winner.

Ultimate's representatives didn't have much time to settle back in their seats as Tim Stamper was called up to receive the Golden Joystick Award for Soft-ware House of the Year — the final award in the ceremony. Other nominations in this category included Melbourne House, imagine and Jeff Minter's

After much applause and mer-rymaking, the first award ceremony came to an end - and the software houses were already planning new games to compete for the 1984 Golden Joystick Awards.

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  - you like Managerial ratina
    - \* 7 skill levels \* Save game facility

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208: DP#PEEK(V+31): F0R0#3T0200: P0KEV+1, 0: TFPEEK(V+31) RND1THEN901 501 POKE54273, 255-(0+1, 5): NEXT 600 POKEY, 150: POKEY+2, 150: FORO=1T0255: POKEY+1, 255-0: POKEY+3, 0: NEXT 615 PRINT"YOU JUST BINT OUT OUT FOR THIS LINE OF HUDE 620 PRINT MODOGODDDDDDDDDDDDOVE STICK TO BEGIN 625 NAIT56320-111-111:00T09 780 N.=1:POKE53289.14:POKE53281.0:B#="TMMM DIFFICULTY LEVELS...... 718 GOSUB49999 : PRINT : FORG=1T0488" NEXT 728 AR="MOVE JOY STICK LEFT TO DECREASE LEVEL ... MOVE RIGHT TO INCREASE LEVEL ." 730 A8=A8+"HIT FIRE WHEN YOU HAVE MADE YOUR CHOICE" 735 GOSUB49999: PRINT: As="(5)=SUPER ERSY, .(1)=PRO\*: GOSUB49999 736 POKE54276, 128: POKE54280, 0 745 IFPEEK (56320)=119ANDEL (5THENDL=EL+1 746 IFPEEK (56320) = 1238NDDL ) 1 THENDL = DL - 1 747 IFPEEK (56328)=111THENPOKE54276, 129: RETURN 748 FORT-070100: NEXT: G0T0740 SOO PEM LINAR LANDER STARS (PURCE 2) 810 PPINT\*[]\*:POKE54273.0:FOR0=1T0155:A=PNB(1)\*36:B=1+(PNB(1)\*23):POKE1824+R+D\*48 829 POKE55296+R+D#49.1:NEXTO:RETURN 850 REM THE PIRATE EMPIRE IS DEAD 955 V=53248:POKE53288.8:POKE53281.8 068 FORG#8T058: A=RND(1)\*48: D=RND(1)\*5: POKE1824+R+D\*48, RSC(", ") 965 POKE55296+R+D#40, 13 NEXT RETURN 878 FORE::8T068:FORY::8T07:POKE53278.8+Y:POKE54273.V:NEXT:NEXT 371 POKEV+1, 0: FOR0=0T0255: POKE54273, 0: POKE53272, 0: NEXT 872 FORD#255T085TEP-1:POKE53272.0:POKE54273.0:NEXT:POKE53272.21 873 IFRETURO OTHENRETURES RETURN 874 PRINT" TOROGOGOGO GOSUES0100: PRINT" TWOU HAVE TRAINED THE CRYSTAL": PRINT" MOF I T'S POWER" PRINT PRINT 884 PRINT"YOU HAVE MASTERED SKILL LEVEL "DL: PRINT: PRINT 886 PRINT"THE BEST TIME FOR LEVEL"DL"IS"HI(DL)"SECS":PRINT:PRINT"SCORED BY "HIS( 887 PRINT"MYOUR SCORE WAS "VAL (TM#) 888 PRINT "MOMOVE STICK TO CONTINUE": WAIT56328.111.127: IFDL>1THENDL=DL-1 890 LI=5:T[#="888888":GOTD188 991 POKE53281.0:PRINT"3000000PLEASE NAIT":FORO=1T063#2:POKE62#256+0.0:NEXT 992 RESTORE: FORG::01037: READD: POKE(159#256)+G. D: NEXT: REM READ M CODE 993 DATA169.0.162.0.160.0.141.33.208.141.32.208.152.200.192.255.240.3.76.6.159.2 994 DRTR224, 255, 248, 3, 76, 12, 159, 169, 8, 141, 33, 288, 141, 32, 288, 96 995 MP=(256#62)-1:P=63#2:FORO=1TOP:PERDSD:POKEMP+0.SD:NEXT:GOSUB18888 997 PETURN 998 F0R0=1T04:SVS256#159:NEXT:RETURN 999 PEM VOICE 3 SET UP (FOR PHASE 2) 1888 PRINT"8" POKE54291, 3 POKE54292, 249 POKE54287, 37 POKE54286, 8 POKE54298, 128 R 2000 C=0:FORT=1T0100:POKE2040,T:POKE54276,129:POKE54273,100-T 2001 C=C+1: IFC=8THENC=0 2010 POKE53270,8+C:NEXT:POKE53278,200:POKE2040,248:LI=LI-1:POKE54296,0 2928 POKEV+21.8:PRINT"TH0000000000000 IVES LEFT="L1:FORT=8T0508:NEXT 2030 POKEY+21, 255 POKE54296, 15 RETURN 8998 V=53248: POKEV+21, 255: POKE53288.8: POKE53281, 8: PRINT\*7": POKEV+23, 8: POKEV+29, 8 9999 POKEV+21.8:POKEV+37.5:POKEV+38.2:POKEV+39.1:POKEV,158:POKEV,8 9688 POKE55, 8: POKE56, 61: POKE52, 61: POKE51, 61: POKE2848, 248: POKE2841, 249: POKE2842, 2 9001 X=150:Y=225:S=1024:SC=55296:SR=0 9885 GOSUB18888 9886.FORR=1T058:A=(RND(1)#39):D=1+RND(1)#10:POKES+A+D#48,ASC(","):POKESC+A+D#48, 1:NEXT 9912 PRINT TRANSPORT 9813 PRINT"%": HJ=6:FCR0=1T028:IFRHD(1)>,45THENR=-1:G0T09815 9014 Aut 9815 IFHJ+AC0THENHJ=1:00T09017 9816 HJ=HJ+R 9017 PRINTTHB(HJ)\*TF\*;:FORT=1TO(9+IL):PRINT\* \*;:NEXT:PRINT\*\*:NEXT 9818 PRINT" SME #80":FORQ=1T07:PRINT"| "TAB(38 9019 NEXT : PETURN 9829 DATRA, 8, 8, 8, 8, 8, 8, 8, 8, 228, 8, 3, 87, 8, 3, 85, 8, 13, 85, 192, 3, 87, 8, 3, 187, 8, 68, 18 9838 BATR248, 56, 184, 176, 56, 184, 176, 56, 184, 176, 58, 186, 176, 58, 186, 176, 58, 186, 176 9848 DATAS6, 184, 176, 56, 184, 176, 56, 184, 176, 68, 184, 248, 8, 8, 8, 8 9950 TATAB. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 2. 170. 128. 9. 85. 96. 37. 150. 88. 165. 150. 90. 165. 85. 9 9855 DATA9,85,96,2,178,128 COMPUTER & VIDEO GAMES

9999 PRINTPERK(653):00T09999 10000 POKEV+40,1:POKEV+41,2:POKEV+41,7:S=1024:SC=55296 10001 PETURN WHALL CRASHW 18858 POKE54288.8:F0R0=1T03988:NEXT:PUN 10100 P1=PEEK(V+2):P2=PEEK(V+4):F0R0=P2T08STEP-1:P0KEV+4,0:NEXT:F0R0=1T0400:NEXT 10110 POKEV+41.7:FOR0=P1T00STEP-1:POKEV+2.0:NEXT:FORT=0T01000:NEXT:00T0200 39999 POYES4296.15 40000 PRINT"3" POKE53280.1 POKE53281.1:A\$=" CENTRE CRYSTAL 48881 ABR"TH THIS GAME YOU HAVE TO GO THROUGH SEVERAL PHASES TO REACH YOUR" 40002 A#=A#+" OBJECTIVE-- THE DESTRUCTION OF THE CENTRE CRYSTAL": GOSUB49999 40010 R##"THE PLOT FOLLOWS: - ": GOSUB49999: POKE54276, 128: FORO: 1T09125: NEXT 48828 POKE54296.8: POKE54273.8: POKE54288.8: POKE54296.15: POKE54276.129 19939 PRINTITE BELIEF FUEN HUMBER VERDS ROL & HOP HAS STORTER BETHERN & PIDATE P 40040 A\$=A\$+\*RND VOUR HOME PLANET, ": GOSLE49999: A\$=\*\$NOW STARTLING INFORMATION" 40050 AS=AS+" MPEYEALS THAT THE WHOLE POWER OF THE PIRATE EMPIRE COMES FROM 48868 GOSLIB49999 : 88=\* SE CENTRE CRUSTEL #": GOSLIB49999 48978 POKE54288.8: POKE54276.128: FORD#1T09125: NEXT: PRINT"3": POKE54276.129: POKE542 48888 AB="THEN YOUR PEOPLE TRIED TO LEAD AN ATTACK ON THE PIRATES. BUT" 40090 AS=AS+" UNFORTUNATLY THEY LEARNED OF THIS AND LAUNCHED A COUNTER ATTACK." 48118 AS="NOW YOUR MOTHER SHIP IS ON FIRE AND THE INTRUDER PLERT IS SOUNDING. 40120 As=As+"YOUR ONLY HOPE IS TO ESCAPE IN AN UNARMED SHUTTLE AND CRASH INTO" 48138 At=At+" STHE CRYSTAL...": GOSUB49999 49131 POKE54276.128:POKE54289.0:FOR0=1T09125:NEXT 40135 PRINT"THIT FIRE TO LEGEN AROUT THE DIFFERENT MARPHASES" PRINT"NELSE MOVE I 48136 IFPEEK (56328)=127THEN48136 40137 | TEPEEK (56320) () 111THENRETURN 48158 PRINT\*7": POKE54276.129:R#="PHRSE 1:-" GOSUB49999" 40160 RE="WIN THIS PHASE YOU MUST RIDE UP THE DOCKING BAY'S RAMP HENCE SHOOTING 48179 88=88+" VOUESELE THIS SPACE (VOIL MIST ALSO AVOID THE ONCOMING PIRATES" 48188 A##A#+" #AT ALL COSTS!)":GOSLB49999:POKE54276,128:POKE54288.8:FORQ=1T09125 49185 POKE54276,129:88=\*7 PHRSE 2:-\*: BOSUB49999 40190 Atm TN THIS PHASE VOIL MUST TRY BUT DODGE THE METORITES AND PEACH THE STAR 40193 AS=AS+"GATE TO HYPER SPACE INTO THE PIRATES AREA OF SPACE, ":GOS/B49999 48194 Ata TIME IS THROWN OUT OF ALL NORMALITES AND IT TAKES 3 SECONDS FOR YOUR S 40195 AS-AS+"IP TO RESPOND TO THE CONTROLS." 48196 A\$\*A\$\*\*BY NOW YOU CAN HEAR THE LAST THROBS OF YOUR ENGINE WHICH IS ALMOST 40197 AttAt+" OUT OF FUEL " 48199 GOSUB49999: POKE54276, 128: POKE54288, 8: FORT=8T09125: NEXT 79 PHRSE 3:- ": GOSUB49999: A\$="IN THIS PHRSE YOU MUST TRY AND 48210 AS=AS+" LAND ON (CAPTURE) AN ALIEN SPACE SHIP TO USE IN THE REST OF YOUR " 40220 AS=85+"MISSION (BECAUSE VOUR SHIP HAS NOW USED UP ALL IT'S FUEL.)":GOSUB49 999 40230 POKE54280.0:POKE54276.128:FORT=0T07000:NEXT:A#="30000000PHRSE 4 (FINAL)" 48248 GOSUB49999 PRINT: RE="THIS IS THE FINAL PHASE WHERE IN YOU COMPLETE YOUR MI 48258 GOSUB49999: POKE54288.8: POKE54276, 128: FOR0=1T01888: NEXT: RETURN 49999 FORDELTOLEN(RE) PRINTHIDE(RE.D.1): "AND: : C=C+1: IFC>=33RNIMIDE(RE.D.1)=" "TH ENC=0:PRINT" ":PRINT 58888 POKE54273, 08NB38: POKE54288, CRNB14: NEXTO: PRINT" \*: PRINT: C=8: RETURN 50100 TEVAL (TIE) CHI (TLOTHENHI (TLOSUM) (TIE) : PRINT"# GREAT SCORE": PRI 50105 PRINT: POKE53270.8: TM#=T1#: RETURN 58118 POKE198.8:PRINT"DODDENTER YOUR NAME "; :HIS(DL)="":RS="":TMS=TIS 50120 GETRS: IFRS=CHRS(13)THENPRINT" ": RETURN 50130 PRINTRS" I II" : : HI\$(DL)=HI\$(DL)+R\$ 58148 G0T058128 60000 PRINT: PRINT: MARABASHIT "CHRS (34) "FIRE"CHRS (34) " TO CONTINUE" 68910 IFPEEK(56320)=111THENRETURN 60020 GOTOGOGIA 20021 DEM 68849 PRINT"100001 60050 PRINT"189991 68851 PRINT" 199991 69852 PRINT\*\*\*\*\*\* . 69953 PRINT\*\*\*\*\*\* 68854 PRINT" 100001 68855 PRINT" 199991. 69856 PRINT\*199991 60057 PRINT" #88881 ---- CRYSTAL ---69858 PRINT" 199991 \* 68859 PRINT"198881 .... ": RETURN cooco pen-60070 PRINTPEEK(56320): GOTDS0070: REM CHECK VALUE FROM JOY STICK PORTN2 COMPUTER & VIDEO GAMES



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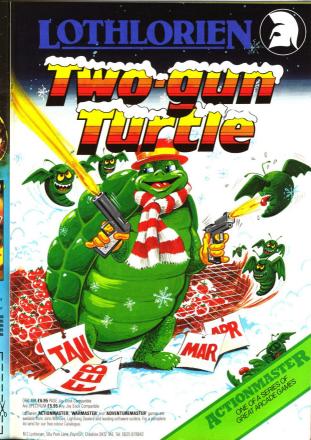
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100 CALL CLEAR 110 CALL SCREEN(2) 120 RANDOMIZE

130 REM DEFINE CHAR'S

140 CALL CHAR(152."FF6060FFF0606FF": 150 CALL CHAR(144."0103070F1F3F7FFF") 160 CALL CHAR(145."FFFFFFFFFFFFFF": 170 CALL CHAR(136."FEFFFFFFFFFFFFF")

180 CALL CHAR(128, "1824183C7E3C1010") 190 CALL CHAR(129, "C32418183CA35SAA") 200 CALL CHAR(120, "183C997E3C3C2466")

210 CALL CHAR(112, "1824425A66816618") 220 CALL CHAR(113, "181818181818181818") 230 CALL CHAR(104, "0C0603FFFF03060C")

240 CALL CHAR (96. "00347E7E3E7E3C") 250 CALL CHAR (40. "00182420202418") 260 CALL CHAR (41. "001824181C2C32")

270 CALL CHAR(42, "0041221408") 280 CALL CHAR(43, "00182420252418")

280 CALL CHAR (43, "001824202E2418") 290 CALL CHAR (58, "0101010101010101") The bells . . . the bells!

Those famous cries signal the return of history's best known hunchback, Quasimodo. He's up to his old tricks of fighting the French authorities in order to save the life of the beautiful Esmerelda, who's hidden in the sanctuary of the cathedral's bell tower.

Notre Dame's walls and battlements are patrolled by armed guards and the government's own secret police are out for the poor hunchback's blood, You must help the cripple jump along the walls of the building and hopefully avoid falling into the clutches of the guards climbing up the outer walls.

If you manage to guide Quasimodo over the wall without being shot by a poisoned arrow and ring the bell hanging at the far edge of the screen, the game will move on to the next sheet.

sheet.

Quasi must clear five sheets without falling foul of the
guards before he can rescue the fair Esmerelda.

Hunchback Rescue will run on any Texas computer without
extended Basic. All the necessary instructions are included in



300 CALL CHAR(33,"1") 310 REM DEFINE COLDUR 320 FOR X=1 TO 16 330 CALL COLOR(X,8,1)

340 NEXT X 350 CALL COLOR(16,7,11) 360 CALL COLOR(15,6,1) 370 CALL COLOR(14,15,2) 380 CALL COLOR(13,14,1) 390 CALL COLOR(12,2,11) 400 CALL COLOR(11,3,1)

#10 CALL COLOR(10,3,1)
#20 CALL COLOR(9,15,7)
#30 CALL COLOR(2,9,16)
#40 CALL COLOR(1,16,1)
#50 M\$="HUNCHBACK RESCUE"

460 Z=5 470 GOSUB 2710 480 FOR D=1 TO 500

500 PRINT " DO YOU WANT INSTRUCTIONS?":::::::::

520 IF S=0 THEN 510

530 IF K<>89 THEN 560

540 CALL CLEAR 550 GDSUB 2370

560 CALL CLEAR

570 CALL COLOR(12,2.11) 580 Ms="INPUT SKILL LEVEL

590 Z=5

500 GDSUB 2710

610 M\$="[1 2 DR 3] 1=EASY" 520 Z=9

630 GDSUB 2710

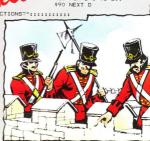
640 CALL KEY(0,K,S) 650 IF S=0 THEN 640

# 660 IF (K<49)+(K>51)THEN 560 670 SK=K-46

\$ 680 CALL CLEAR.

690 REM SET UP SCREEN

700 FOR NST=1 TO 30 92 COMPUTER & VIDEO GAMES



710 RR=INT((11-1+1)\*RND)+1

720 CC=INT((32-1+1)\*RND)+1 730 CALL HCHAR (RR.CC.33)

740 NEXT NST 750 CALL HCHAR (12, 1, 152, 416)

760 FOR X=9 TO 11

770 CALL HCHAR (X, 1, 152, 4) 780 CALL HCHAR (X, 28, 152, 5)

790 NEXT X

300 CALL HCHAR (9, 27, 144) 810 CALL VCHAR (10, 27, 145, 2)

820 RESTORE 910

830 FOR Z=1 TO 4 340 READ CL

850 FOR X=9 TO 11

860 CALL HCHAR (X,CL, 152,2)

870 CALL HCHAR (X.CL-1.145)

380 NEXT X

390 CALL HCHAR (9, CL-1, 144) 900 NEXT Z

910 DATA 8,13,18,23

920 FOR Z=17 TO 24

930 CALL HCHAR (Z, 13, 136, 8) 940 NEXT Z

950 CALL VCHAR (17, 12, 96, 8) 960 CALL VCHAR (17, 21, 96, 8) 370 CALL HCHAR (16.13.96.8)

980 CALL HCHAR (2, 30, 112) 990 CALL VCHAR (4,30,113,5)

1010 GOSUB 2150

1020 SCORE=0 1030 K\$="SCORE"

1040 FOR Y=1 TO LEN(K\$)





1050 CALL HCHAR (14, 24+Y, ASC (SEG\$(K\$,Y,1)))

1060 NEXT Y 1070 GOSUB 2780

1080 REM SET UP GAME 1090 RN=8

1120 CALL HCHAR (R.C. 128) 1130 A=24

1140 CALL HCHAR (A. 3, 120)

1150 CALL KEY (0, K.S) 1160 IF (RND\*RN) >3 THEN 1180

1170 GOSUB 2000

1180 IF S=0 THEN 1150 1190 IF K=68 THEN 1240

1200 IF K=83 THEN 1340 1210 IF K=32 THEN 1450

1220 GOTO 1150 1230 REM GUARD MOVE

1240 REM MOVÈ MAN RIGHT 1250 CALL HCHAR (R.C. 32) 1260 C=C+1

1270 CALL HCHAR (R, C, 128) 1280 CALL GCHAR (R, C+1, CR) 1290 IF CR=128 THEN 2240

1300 IF CR=113 THEN 1790















1310 CALL GCHAR (R+1.C.CW) 1320 IF CW=152 THEN 1150

1340 REM MOVE MAN LEFT 1350 CALL HCHAR (R.C.32)

1370 IF C>2 THEN 1390

1390 CALL HCHAR (R, C, 128)

1400 CALL GCHAR (R.C+1.CR) 1410 IF CR=113 THEN 1790 1420 CALL SCHAR (R+1.C.CW)

1430 IF CW=152 THEN 1150

1450 REM MAN JUMP 1460 FOR V=1 TO 2

1470 CALL HCHAR (R.C. 32) 1480 R=R-1

1500 CALL HCHAR (R, C. 128) 1510 NEXT V

1520 FOR V=1 TO 2 1530 CALL HCHAR (R.C, 32)

1560 CALL HCHAR (R, C. 128)

1570 NEXT V 1580 CALL GCHAR (R+1, C.CW)

1590 IF CW=152 THEN 1150 1610 REM MAN FALLS

1620 CALL HCHAR (R,C.32) 1630 FOR Z=9 TO 23

1640 CALL GCHAR (Z.C.CH) 1650 CALL HCHAR (Z,C,128) 1660 CALL HCHAR (Z,C,CH)

1880 CALL HCHAR (24, C, 129) 1970 CALL HCHAR (A, 3, 120) 1980 RN=RN-SK 1700 CALL SQUAD (-1000, -7,V) 1990 BOTO 1150 1710 NEXT V. 2000 REM MOVE GUARD

1720 M\$="ANOTHER GAME? LY OR NJ" 2020 A=A-1

1740 GOBUB 2710 2030 CALL HARR(A, 5, 120) 2040 FR Page 176 Page 1760 Page 1



1930 CALL HCHAR (A, 3, 152) 1940 C=2

1950 A=24

1960 CALL HCHAR (R, C, 128)

2010 CALL HCHAR (A, 3, 152)

2030 CALL HCHAR (A, 3, 120)

| 2150 K8="SCREEN" STREETED | 1870 K8="SCREEN" STREETED | 1870 K8="SCREEN" STREETED | 1870 K8="SCREEN" STREETED | 1870 CALL HCHAR (14, 4+Y, ASC (856\*(K2,Y,11))\* 2180 NEXT Y | 2190 NEXT Y | 2190 NEXT Y | 2190 REPURS THEN 2200 REPURS THE REPURS (2.10, 72, 6.10)\* 2210 REPURS (2.1

2220 CALL HCHAR (8, 30, 128) 2230 GBTD 1930 2240 REM RESCUE MAIDEN 2250 FOR L=11 TO 3 STEP -1 2260 CALL HCHAR (L. 16.58) 2270 NEXT L 2280 CALL HCHAR (3, 17, 40) 2290 CALL HCHAR (3, 18, 41) 2300 CALL HCHAR (4, 17, 42) 2310 CALL HCHAR (4,18,43) 2320 CALL SOUND (200, 370, 4, 440, 4, 294, 4) 2330 CALL SOUND (600, 392, 3, 494, 3, 294, 3) 2340 CALL SOUND (200, 392, 2, 494, 2, 294, 2) 2350 CALL SOUND (800, 294, 1, 440, 1, 370, 1) 2370 REM INSTRUCTIONS 2380 CALL COLOR(12,11,1) 2390 M#="HUNCHBACK RESCUE" 2410 GDSUB 2710 2420 M\$="YOU ARE QUAZIMODO 2440 GOSUB 2710 2450 M\$="YOU MOVE YOUR MAN WITH" 2470 GOSUB 2710 2480 M\$="'S' FOR LEFT" 2500 GOSUB 2710 2510 Ms="'D' FOR RIGHT" 2530 GDSUB 2710 2540 M\$="SPACE BAR TO JUMP" 2560 GOSUB 2710 2570 MS="BEWARE OF THE GUARD "&CHR\$ (120) 2590 GOSUB 2710 2600 M\$="WHD SCALES THE WALLS" 2620 GOSUB 2710 2630 M\$="PRESS ANY KEY TO START" 2650 GOSUB 2710

Hints on Conversions Although TI basic is fairly standard, it does contain some rather unusual commands. In the most part they are prefixed by the command CALL: CALL CLEAR: Clears the screen,

represented on most as CLS.

CALL SCREEN: Changes the colour of screen background.

CALL COLOUR: Determines the colours of individual characters. CALL HCHAR: Used to place a character

horizontally on the screen. Replaced by POKE or PRINT on other computers. CALL VCHAR: Similar to HCHAR but places the character vertically.

CALL KEY: The TI basic's version of GET or INKEY

CALL CHAR: A command to create a user defined character.

Variables The four main variables used throughout

the program are:-R — Horizontal position of Quasimodo.

C — Vertical position of Quasimodo. A — Vertical position of the guard. SCORE - Total scored during the game.

2780 REM PRINT SCORE 2790 K\$=STR\$(SCORE)

2800 FOR Y=1 TO LEN(K\$)

2660 CALL KEY (0, K.S)

2680 CALL CLEAR

2700 RETURN

2760 NEXT 1 2770 RETURN

2670 IF S=0 THEN 2660

2690 CALL COLOR (12.2.11)

2710 REM PRINT MESSAGE

2730 FOR I=1 TO LEN(Ms)

2720 V=16-INT(LEN(M\$)/2)

2740 CD=ASC(SEG\$(M\$, I, 1))

2750 CALL HCHAR (Z.V+I.CD)

2810 CALL HCHAR (16, 24+Y, ASC (SEG\$ (K\$, Y, 1))) 2820 NEXT V

2830 RETURN

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. . . The graphics are fantastic — immensely addictive - it should probably be banned before it has time to take off'

(Crash Micro March 1984)

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Į	2	Atic Atac	Ultimate	Spectrum
	3	Ant Attack	Quicksilva	Spectrum
	4	Hunchback	Ocean	Spectrum
	5	Fighter Pilot	Digital	Spectrum
Į	6	Manic Miner	Software Projects	Spectrum
ı	7	Hobbit	Melbourne House	Spectrum
ı	8	Pole Position	Atari	Atari
L	9	Mr. Wimpey	Ocean	Spectrum
L	10	Revenge of the Mutant Camels	Llamasoft	Commodore 64
	11	Snooker	Visions	ввс
ł	12	Hovver Bovver	Llamasoft	Commodore 64
L	13	Super Pipeline	Taskset	Commodore 64
L	14	Scramble	Microdeal	TRS 80 Colour
L	15	Super Cobra	Parker	Atari
L	16	Alchemist	Imagine	Spectrum
L	17	Lunar Jet Man	Ultimate	Spectrum
L	18	Jet Pac	Ultimate	Spectrum
L	19	Chequered Flag	Sinclair	Spectrum
L	20	Harrier Attack	Durrell	Spectrum
L	21	Manic Miner	Bugbyte	Spectrum
L	22	Asteroids	Atari	Atari
L	23	Pilot 64	Abbex	Commodore 64
	24	Hunchback	Superior Software	ввс
L	25	Fred	Quicksilva	Spectrum
	26	Crazy Kong	Interceptor	Commodore 64
L	27	Invaders	Sinclair	Spectrum
L	28	Kong	Sinclair	Spectrum
L	29	Scuba Dive	Durrell	Spectrum
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# HARRIER

20 PROCSET\_DATA

30 REPERT

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The landing was a miracle and it was only the pilot's bravery and skill that prevented the 14 million pound plane plunging into the sea.

The game puts you into a very similar position. The Z, X, \*, and ; keys are used to complete a perfect landing.

to move the plane in the correct directions IFL%>0 THEN J%=0% G0T0360

IF L%>0 THEN 0%=J%: J%=Q%+8: G0T0330

IFL%>0 THEN J%=0%: G0T0360

IF L%=99 THEN MOVE320,600 PRINT"PLANE LOST" BASE=BASE-1:GOTO430

IF LX=13 AND TX(3 THEN MOVES84,648 PRINT"TOO FAST" PROCERASH GOTO448

BY PETER HEXTAL

RUNS ON A BBC

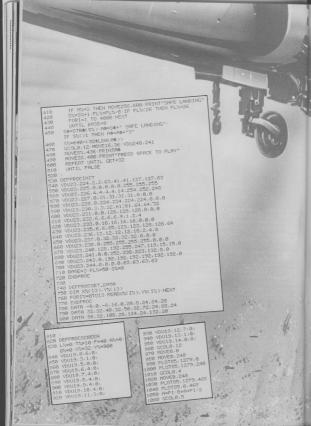
MODEL B IN 32K

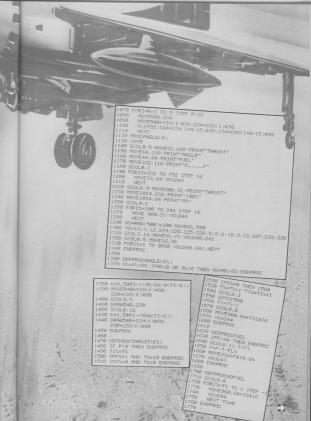
IF FC=8 AND TX>8 THEN PROCHOFUEL

IF LXX0 THEN ONE IN JUNEY: GOTO210 VDUIE, 3, 12, 238, 231, 9, 232, 8, 8, 8, 8, 18, 3, 13, 233, 9, 233

RX=07.+RND((1888-07.)/8)#8

FOR J'. = 0% TO R' STEP 8





1840 1860 Y1%=Y%:X1%=X%:H%=ABS(3-A%) 1880 V=4\*INT((T%\*(3-H%)-G)/4) 1900 B=8\*INT((2\*(T%\*(3-8%)+H%))/4)/8 1930 MOVEX1%, Y1%: VDU240, 241 1950 IF XX>1279 OR XXX-128 OR YX>1855 THEN LX=99 2280 YDU18,3,12,224,225,225,226,8,8 1960 SOUND&10,-T%,14,20 2300 VDU18,3,14,240,241 1990 DEFPROCCHECK 2000 NX=1:MX=0:LX=0 2010 IF XX<-128 OR XX>1279 OR YX>1855 THEN LX=99 2330 DEFPROCINSTRUC 2340 FORT%=0 TO 1 PRINTTAB(12) CHR#141CHR#129; "HARRIER" | NEXT NEXT 2360 PRINTCHR\$130; "TRY TO LAND THE 2060 IF NXC>2 OR LXC>13 THEN ENDPROC JUMP-JET ON THE SHIP'S" 2070 Z=(XX+40)-104 2080 IF Z-J%(60 AND Z-J%)0 THEN M%=3 2370 PRINTCHR\$130; "CONTRINERS." 2390 PRINTCHR\$131; " YOUR 2110 DEFPROCERASH 2120 SOUND&10,-15,14,50 2400 PRINTCHR\$133;" 2130 PROCNOFUEL 2410 PRINTTAB(18); CHR\$134; "INCREASE 2150 GCOL0,14:MOVE224,600 2160 IF LX=4 THEN PRINT"PLANE DITCHED" 2428 PRINTTAB(18); CHR\$134; "DECREASE ELSE MOVE 192,600: PRINT"SHIP COLLISION" 2180 FORIX=4 TO 56 STEP 4 2440 PRINTCHR\$133;" 2450 PRINTTAB(18); CHR\$134; "INCRE FORKX=0 TO 1000 NEXT 2460 PRINTTAB(18); CHR\$134; "DECRE NEXT ASE - /" 2470 PRINTTAB(8,18); "PRESS"; CHR#136; "SPACE"; CHR\$137; "TO START"

2480 REPERTUNTIL GET=32

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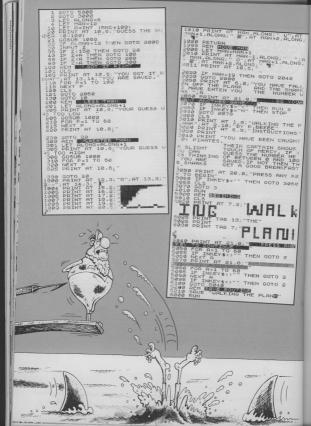


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# THE OLD PROBLEM!

There are many derivatives of the original Adventure, the *Colossal Cave*, written by Crowther and Wood for a mainframe computer.

First on the scene was Radio Shack, with Pyramid 2000, a 16k TRS-80 version with an unlikely name, and much maligned by the critics in the USA at the

One particularly scathing mention was the review in 80-Microcomputing at the time, complaining that a sceptre was used in place of what was obviously a wand in the original. 'It is fairly logical to wave a wand — but who on earth would want to wave a sceptre?"

Once inside, it is down the grating so to speak — so why bother with the pyramid bit? Copyright? You could hardly fail to recognise the bird statue and the statue box! So there it was, all the trappings except the well-house and river.

Next to arrive was a ZK81 game innocously entitled Abersoft Adventure,
later available for the Spectrum. This
one was much more easily recognised
as Colossal, for it featured the wellhouse and river. The bird had to go in a
wicker cage, and — no sceptre! A
black rod this time!

My next foray into the cave came when I had the opportunity of logging on to Comshare. The black rod had a rusty star on the end — much more easily recognisable as a wand.

A couple of short, sharp linech hours connected to the nainframe was all I managed, but I amazed my friends by achieving things they had been spending months trying to do! I eventually let on that I wrote the Adventure column for C&VC, and I had played some lookalized I was nearly maimed as I rushed over the crystal bridge, heading for the door!

"Oh woe is mine!" I wrote a couple of months ago, not having a copy of Colossal Adventure from Level 9. At the same time, I contacted them, and I am now a proud possessor of that Adventure! That doesn't mean, Dan and Andrea, that I can answer all your prob-

And what of Level 9's interpretation of Colossal? No need to describe the scenario — perhaps an apt description might be "You've played the rest, now try the best".

The game I played on the mainframe had a charming little sequence in which I encountered a frog, kissed it, and was devastated to find I had not created a prince or princess — merely got myself covered with warts!

The events that followed were even more hilarious — I kissed a princess and passed on the warts, and then, deciding to leap into her four-poster, was told "You cant, and in any case, she has a headache" I eventually solved the problem, which had an unexpected

twist.

Now, although the Level 9 version is the nearest to the mainframe version I played, there was not a hint of a frog to be seen. Was I playing an enhanced version of the original, or are all the micro versions abridged? How can I tell—what IS the original adventure, and

how can it be recognised?

So, Dan and Andrea, play on! I hope to be able to help you soon but, on the other hand, may easily be asking you to help me! (Y2 carved upon a rock?...)

#### GOODBYE AND HELLO

sty pile of letters has been growing lately, so apologies if my reply to you has been delayed or overlooked. Trouble is, my helper, young Simon Clarke, has left us to start up his own software business, leaving yours truly, truly submerged. Thanks for all you help, Simon, and the best of luck in your new venture!

On hearing of Simon's plans, I searched through my files of readers letters, and persuaded Paul Coppins, whose tips you may have read about in previous issues, to join me in answering your pleas for help. Paul is a bit of an expert on Atari adventures —

Those of you who write in with tips or questions may now expect a reply from either Paul or myself. As before, I'll be reading your letters and passing some on to

## WHAT'S YOURS BILL?

Make sure a bottle of gin is to hand if you sit down to play Denis through the Drinking Glass, for you are only allowed 10 moves without having a snifter. And to do that you must find the flask . .!

to do that you must find the flask . .!

That is the first problem. But you may
not find it quickly enough, because
Maggie has a habit of catching up with
you first to try out one of her speeches
on you. You could end up bored to

death!

This game is a topical political satire, written mainly in verse, and available for the Spectrum. Just because it is fun

— especially if you list to port! — don't be fooled into expecting it to be easy! I am dying to have a go at Mary Whitehouse, give the women of Greenham Common a pat on the back, to get one up on Maggie (will I succeed without a bullet-proof vest?) and even-

white a busie-proof vest?) and eventually reach the sanctuary of the Gravedigger's Arms to drink the cellar dry — my objective! But at the moment I'm still cowering in

the cupboard under the stairs, away from the Iron Lady's clutches, trying to discover what a purdy is. When she clears 'orf', I will steal into her boudoir and see if I can flich some of her gin. Maybe III find a washer for her dripping tap.

I did once try a swift exit from the front door, but became a national head-line: "Denis poses for Sun readers outside No. 10" (end of game). Whoops! I had forgotten to dress!

The author claims he is unlikely to be awarded an OBE, and is anonymous. Could it be Jasper Carrott?

For those who enjoy satire and poking fun at the Establishment, here's a game that's certain to please.

Denis Through the Drinking Glass is innocuously packaged in an ordinary cassette case with a fairly uninteresting inlay. The game belies the packaging!

alley. The game belies the packaging! Although hard to solve, Denis is easy to play, with one of the fastest responses I've yet seen in a Spectrum Adventure. Interestingly, it is written using the Quill. Under the titles is your

first object — A Plus!

Denis Through the Drinking Glass is for the 48k Spectrum, price £5.50 from Applications.

114 COMPUTER & VIDEO GAMES

BY KEITH CAMPBELL

#### HELPLINE

Help for Andrew Kennedy, troubled with Velnor's Lair comes from Jonathan and Alex Gick. You cannot pass the waterfall, they say. Their advice is to go north from the central cavern, feed a corpse to the crocs, and use a large bath to cross the river.

Haunted House is a game I very rarely hear about, but it has one Adventurer troubled. Martin Ward of Farnborough, has braved animated armour, passed a wall of fire, and cannot deal with a mere ghost on the second floor!

It's been mopping-up time over Christmas for many Adventure players. A number of readers have written in to claim a game completed, or record

Lords of Karma has brought forth another record breaker - Graham Potts, from Cowplain, had the game for Christmas, and by the 28th December had amassed a total of 970 Karma points, beating our previous high of 957. Can anyone top that?

Another quick score was made on Hobbit on the '64, by novice Adventurer (it was his first). Terry Dibden of London W6. 100% was run up in little over a week after he received it as a Christmas present! At least - he THINKS it was 100% - yet another Hobbit-bug appeared after he scored 95%, and told him his score was <0.0%. But the

cheering crowd were there as usual! Golden Voyage is a mere puzzle compared with Empire of the Overmind, writes K. Stavron of Livernool. After a six-month strupple he has completed Overmind - the first such claim

to fame I've had But it is not all a success story. Matthew Howell of Wednesbury can

shoot electric eels, but can't prevent a crah from devouring him. Has anyone out there solved this Devils of the Deep

problem? Among the other troubled pleas for help: Opening a courtyard door in Cas-

tle Colditz, from Paul Waterman. Have shovel - can't dig, have boat and naddles - can't sail, in Calixto Island, from G. Laurie.

Can't escape from railway carriage in Ten Little Indians, from Chris Jones, Blinded by flash of light in philo-

sonher's lab. in PO. from Adrian Bald-Finally, another bug, Jason Warren

from Jersey has found one in Valhalla! Surprise surprise! In the Cave at Hell, he typed JUMP, and his Spectrum said "Integer out of range". Have you tried "Sell food" yet Jason? That gives you a different error!

### FISH FINGERS AND PIECES OF

I'm stranded on an island about the size of a postage stamp, with the temperature plummeting upwards, and only my space ship for company.

My ship seems to have developed a dislike for me, and tells me to go away. I ask if it knows how to get out of this place. "No, but if you hum a few bars I can fake it!" comes the reply.

You've guessed it - with corny lines like that I've got to be Dan Diamond again, returned from being lost in space and up to something rather fishy.

So, like the only book I had with me said, I took the plunge, and did a bit of underwater exploration. I found a whole world down there, and even bumped into old Sparrowhawk, who gasped a dire message about a princess, and dived off into the pool in the cavern.

A lot of help he was! I tried to follow him, but he was gone. If only he had told me where, but he hadn't, and I ended up

revolving eternally In fact, I kept revolving eternally.

Passing down through underwater caverns, and swimming blindly in the dark - no lamp to see where I was heading - I kept hitting the same watery current. After some hours of trying different

sequences of directions. I suspended operations, strongly suspecting that there was another exit down there and I couldn't find it.

The only way out, I decided, was to GO SOUTH and visit Salamander Software, the publishers of Fishy Business. the third in the Dan Diamond Trilogy. By the time I arrived to speak to Pete

Neal, I really did feel like Dan Diamond, for it was lashing down with rain, liberally mixed with sea-spray blowing up from the sea front. Pete took pity on me, and confided

that the dark underwater was confi-

#### IT CAN'T BE DONE!

A few months ago I suggested that a reader who had completed an Adventure game might care to swap it with another, through these pages.

It all sounded fine, but when it came to the point, I found there were unforeseen problems

Should we print a list of swap-shop offers? We concluded that if we were to print a list of offers and leave readers to contact each other the Adventure page would read like a list of classified

arts! And if a swapper offered a popular game - how would he deal with the situation if he received dozens of let-

Alternatively, if we arranged the swaps at this end, then the Helpline would be at risk, since the task of

arranging swaps would be tremendous. All in all, we decided the idea was not one of our more practical suggestions. So to all those of you who have written in hoping to arrange a swan sorry! Swap shop is no more!

gured to confuse. "Yes, there is more than one exit" he confirmed, and grasp ing a pen in his tentacles, wrote a ROE of letters on a sheet of damp paper

Thus I was able to explore underwater tunnels leading to a sea-horse stable, a kitchen specialising in fishballs and cod pieces, and more corn!

So have fun with Faint-hearted Franklin once more, and see if you can achieve the objective set by Sparrowhawk. If you do - you'll be well rewarded with a final laugh! I know - I have been PEEKing RAM again!

I liked this one better than Lost in Space. The game has such promise that I want now to visit the giggle of mermaids, the Seagas Room (me, I'm all electric!), and to find out about Ostea Edulis, all pictured in the nicely illus

trated booklet that comes with the

I played the Dragon version, which, as expected was irritatingly sluggish at times. Beeb owners can expect a much snappier response.

And some final advice for those of you who buy this game - keep trying underwater if you can't avoid the whirl-

pool! I would put money on that being the only way out for many, until you hit upon the right sequence! Fishy Business is from Salamander Software, for Dragon 32, BBC B, and

#### HELPFUL HINTS

Oric, price £9.95.

else overlook" one is ICICLE POUNDS, and the "what does everyone man poor man ist mam riddle is moving, he adds, or SPLATTO! The rich revealed. Be sure to type ON before type OFF, and the next direction will be following advice. In the guard room inimitable way, and comes up with the attacking Castle of Riddles in his own you take at your own risk. He has been is one of those tipsters whose advice John Yeates, our self confessed nut, **ВОТНЕН!!** 

far bought a copy of Traam, DON'T a tip for other readers who have not so "Obvious, isn't it?" asks Rikki. He has uniform - type TALK KASTAMAN. Traam. He the black man in the slave's Edward McArdle on Escape from Hikki Alton of Nuneaton has a tip for attack of amnesia!

At this point Mr Parry had a sudden R34, D3-R27:K4-R22, D4-77 K1-R19, D1-R13:K2-R9, D2-R21:K3-

cubitic way: summarise Mr Parry's useful tips in a be entered in the correct order. I'll to get through the doors, and they must value, or a key. Four keys are required bonus of two extra lives, nothing of The treasure chests may contain a

Of Leeds. with Shamus Case II, from D. E. Parry Help comes to R. T. Britwell struggling



#### MUSIC TO FREEZE BY!

I never thought it possible that I would actually start writing about a game whilst it was still loading! But I have been won over before the tape is half-

way through!

The gentle tones of an organ are playing a captivating melody in two voices through the speaker of my BBC micro, as Snowball from Level 9 loads Here, then, is the first game I have ever wanted to carry on loading. A "cover picture" I am used to, but a full-length classic rendering? Incredible!

I contacted Level 9, to discover the name of the piece. It is Winter from the Four Seasons by Vivaldi. A very appropriate title to accompany this adventure! But will the game be as

enioyable as its theme tune? Snowball seems an unlikely name for a science fiction adventure. The booklet supplied with the game gives a fully documented background, and the personal history of Kim Kimberley, the part you are about to play,

Snowball 9 is a vessel assembled in space, and fuelled by frozen ammonia in which it is encapsulated, to take its cargo of colonists from Ceres base. Kim was specially trained as a secret

agent, to be awoken from her freezercoffin only if something went wrong aboard Snowball on its journey to Eirdani A. And something just has.

The game, when eventually loaded, runs in black and white text, (not surprising, as it is claimed to have 7,000 locations) and has a good response speed. The text is wordy enough to be interesting, and perhaps mysterious rather than cryptic.

After my first few moves, having just read the booklet, I began to feel I was taking part in a film rather like a cross between 2001 and Alien. Cold shivers were the order of the day, for the second time around. I knew that the clanking mechanical noises getting nearer and nearer, sometimes fading. sometimes not, were coming from a Nightingale.

Nightingales are great big ugly black things with hypos and syringes inside.

Not at all what I expected from a cre ture from Berkeley Square. Strange! Oh! Yeah! I just got it! But where was

the lamp for the Adventurer? So - how do I escape? "Up" says the book - trouble is I am disoriented and keep running into walls. The answer must be locked in the control panel. Now this has ten buttons and six indicator lights - quite a number of combinations, or is there a code staring me in

the face? Whatever the answer - I must hurry! I hear faint mechanical noises coming

from outside It's all in the buttons and light, I have now decided. And I'm getting the hang of them - I think! Where did I read that this game should take a few weeks on

A chiller in more ways than one! The scene is set with such realism I can imagine a future advertisement: "You've played the game - now see the film!" And when that happens, Adventure games will have really arrived!

Snowball is from Level 9 Computing price £9.90, and available for BBC (B), Commodore 64, Spectrum 48k, Lynx 48k, Nascom 32k, Oric 48k, and Atari 32k. If you have one of these micros and like a difficult adventure — buy it! Note that only the BBC version comes with the title music

### MORE TIPS FROM THE CHANNEL ISLANDS!

Our nutter from the channel islands has been fiddling with his BEEB again:

Dear Data-Twiddler,

I'm back again, and I've got lots of tips for all you lot out there in Computerland! Firstly, how about Hobbitbug number 475? By simply typing EN DO, the sword breaks. Gollum dies and the black river evaporates!

Secondly, Artic's Adventure A. Last time I wrote I told you how to find the coin. Now I'll tell you how to use it. Bribe the guard, I think he MIGHT just do something useful. Signed J. Yeates (a total loony)

P.S. The password is "Joshua" or "Hovver Bovver", guys, and I'm not telling you which

Keith: Wow! Now all we need is the game to go with the password we don't know!

A correspondent whose letters I always look forward to is Simon Marsh, from New Malden in Sur-

Dear Keith. After I read your article in Octo-

ber's edition, I came to the conclusion that adventure players are the best computer users - kind, friendly, and always helpful.

If the above is true, why are the software houses still releasing 'unfriendly' games, e.g. Mad Martha? The most frustrating thing I have found about some adventures is the lack of save-game facility. This really does make me mad. The writers should endeavour not to let this fundamental operation be missing in any form of adventure.

I was upset not to see an Adventure page in the Year Book, though your Vespozian Affair was a consolation. I've not had time to key it in yet, but I'm sure it is a great

game. I must go now, the Dragon's getting hungry and wants something soft to eat!

Keith: Ooops! Vespozian hasn't a save-game feature! And has been described by my nearest and dearest as the worst Adventure ever written! (They find it too difficult!)

DETAILS

MIDDLE EARTH ADVENTURES 1: COLOSSAL ADVENTURE. A

2: ADVENTURE QUEST.

3: DUNGEON ADVENTURE. The

THE FIRST SILICON DREAM 4: SNOWBALL. The first of Pete

THE LORDS OF TIME SAGA 7: LORDS OF TIME. Our congratulations to Sue Gazzard BBC 32K COMMODORE 64 SPECTRUM 48K LYNX 48K NASCOM 32K ORIC 48K ATARI 32K



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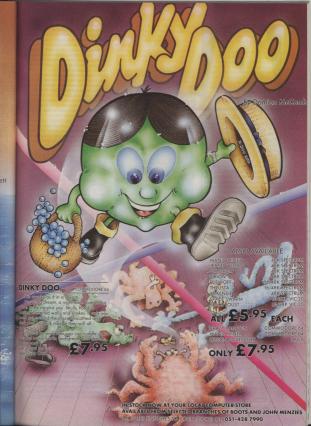
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tarisoft

Terrified by that mass of games software that confronts you each time you walk into your local computer store? Worried that you might not have the right games in your collection? Well, you can stop getting all hot and bothered! C&VG is proud to present a comprehensive rundown of the best games around for the Atari range of home computers. CRAIG THACKRAY has been delving into the mass of software around and has come up with a few winners.



AE by Broderbund is a 3D game which loads each detailed scene from disc after playing a selection of wonderful little ditties. A band of six alien invaders then dart in front and behind objects on the screen in a very acceptable manner. To continue through the game, you must kill three complete sets of aliens.

Bandits follows a much more standard screen format. The game itself is not totally enthralling, but it is an excellent game in terms of graphical presentation and the final touches incorporated are magnificent.

When the game begins there is a small spaceship on a lunar surface ready to fly off from a launch pad into infinity. A small astronaut transport vehicle bounces its way off the screen and the spaceship launches, reeling the title page onto the screen.

However something is wrong! There is an apple sign by the word Bandits. But fear not I A termite runs onto the screen and in a flurry of activity eats the apple to the core, leaving only an Atari sign behind.

Throughout the game there are nice details like this — putting this game a cut above the rest. Bandits is a must for Atari owners with a liking for Galaxian style games.



One of the most realistic simulations that computers can create in Phabla Several operations of the computers of created in Phabla Several operations. Bill Budge being the best known. Bill budge being the simulation is now required as one of simulation in now required as one of simulation in software. The to the landmarker is now required as one of flatter Blaster, Phabla Construction of Rateria Blaster, Phabla Construction of Sealinalist, a variation of a maintraine of simulation of the sealing of the

PINBALL

kit, and at £30 it has to be about the best value program available.

Night Mission is Sublogic's offering, from the author of Flight Simulator on the IBM PC now available for the Atari as Flight Simulator. Its unusual qualities are that over 40 variables can be altered and that the sound comes solely out of the keyboard speaker and doesn't sound too bed at that.

sound too bad at that.
For the cassette player owner, this is
the best buy, unless you can contact
synapse Software in the States and get
hold of their program Slam Ball, which
again is innovative in its concept.
Although I have never seen it in the
flesh, the message through the
grapevine is that the screen scrolls
around following the ball.

David's Midnight Magic and Raster Blaster are very similar and both of these excellent games, along with Night Mission, are included as playable demonstrations in the Pinball Construction set.

### WAR GAMES

There are many followers of War Games who play on paper maps covered by hexagonal patterns with card-board pieces. These games are easily converted to computers. As a result there are many War Games available, but they are more prolific on the Atari than any other machine.

The three War Games I would recommend are Operation Whirlwind, Eastern Front and Legionanier. The latter two are by Chris Crawford, a master of scrolling games and co-author of De Re Atari. Al of these games scroll and have highly detailed maps.

For disc owners, Operation Whirlwind is by far the most sophisticated and has the most elaborate title page I have seen. For those who prefer a little faster action, I suggest Legionnaire, supplied on cassette in 16k by Avalon Hill.

The last on my short list is Eastern Front, originally sold on cassette by Atari Program Exchange and then bought by Atari on cartridge in a very professional package with instructions in the form of a war diary.

### ADVENTURES

Adventuring is an area of games playing taken to religious lengths by some and covers the largest range of titles available for the Atari. Due to the original nature of many games, several unlikely games will crop up in this section.

Pure adventure enthusiasts will know that there are two main adventure companies, Infocom and Adventure International. However, two British companies, Level 9 and Channel 8, are now producing very high quality adventures.

The best value text adventure available is Snowball by Level 9 at 69.90 which has over 7,000 locations.

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For those who enjoy defeat, a strong favourite is Empire of the Overmind by Avalon Hill, still a favourite amongst masochists and members of Mensa alike. If you believe in doing three impossible things before breakfast. then pop out and get one today.

The best Adventures available are those in the Infocom range. They supply the most intricate Adventures available. Each of their latest releases covers two sides of a disc and is supplied with large amounts of extra documentation

such as ID cards, postcards, games boards and numerous testimonials. All are supplied in intricate packaging and have the professional air of a best selling record album. Interaction is in a dialect as close to

English as you are likely to see for some years. Full conversations with characters is encouraged and the world in which you play seems boundless.

It is now possible to buy blueprints of buildings, maps of the underworld, tshirts, brass lanterns, clues in invisible ink, posters, almost everything an

Adventurer could need. The games they have released are the Zork trio, Deadline, Starcross.

Witness, Suspended, Planetfall and If you own a disc drive, then buy the

latest Infocom game whatever it might be. I guarantee you won't be seen again Beginners or those with limited mem

ory (all you 16k 400 owners) will find more joy with Channel 8. These are relatively easy - by Infocom standards - but very enjoyable and reasonably

cheap. For the Adventurer who wants to play classics, the Adventurer's guru Scott Adams, offers very humorous adventures through Adventure International. Two modern classics released by Adventure International are based on Frogger and Pacman. Preppie I and Preppie II written by Russ Wetmore, also set new standards in software qual-

ity and will be mentioned later For those who prefer graphics in their life they can turn to the offerings of several companies. Technically, Sounds of Egypt is by far the best graphic adventure available - the pictures are highly detailed and animated with scrolling clouds and bouncing camels. However, it is so incredibly difficult to converse with and impossible to complete that it is barely worth playing let

The Scott Adams series is now available in graphic format, called SAGA's. I'm sure they will soon become famous for their incredible flickering graphics. In order to achieve multitudinous colours, the programmer has timed the colours to flick every 60th of a second for the television system used in America. The desired effect however fails horribly on the British system. If you are not friends with your local optician then don't even consider it!

The most enjoyable graphic Adventures I played were the On-Line Sierra series. Special interest should be directed to the Dark Crystal, my sug-

gestion for the best graphical adventure. Synapse Software are to arcade

Adventures what Heineken is to lager. Shamus II, Pharaohs Curse and Necromancer are their best releases in this line. I recommend all of these, my own soft spot being towards Necromancer. The animation on all of them is superb. the control over each is very well thought out and the graphics are beyond compare.

For those who prefer to spend a more reasonable amount on a game, then Lone Raider, the latest release by Atari costing £15.00, is perfect.

It is one of the few programs available that plays music while loading and is a very professional three part action grammer, Justin Whitaker

### ARCADE

The official Frogger, by Sega, always looks good. However, there are now two official Froggers for the Atari, one from America and the other by our very own Parker Brothers



I can see no difference between the Online Sierra disc version and that from Parker Brothers. Both are perfect copies of the arcade game and are

immense fun. One other striking example is Preppie! by Adventure International. Although innovative at the time, it is now rather average and I find the movement sluggish. I confess to enjoying the tunes

it plays as you are run over Dig Dug is, in comparison, a new release in the arcades. To date I have found four versions of the game: O'Reily's Mine by Datasoft, Diamonds by English Software, Anteater and Dig Dug

by Atari Dig Dug from Atari, is my personal favourite, mainly because I find it relaxing. The documentation explains every aspect of the game to the full. O'Reilv's Mine . . . well, what can you say about it. nice title page, shame about the game.

Diamonds by English Software digresses too much from the original for me and I find the graphics tacky and the game laborious. However for £10 it is reasonable. I'm afraid I just don't like A game I did enjoy in the arcades

was Q\*Bert. There are now many versions of the game available and of these I have collected the best three

The most accurate version presently available is Pharaohs Pyramid. It is also part adventure and I found it a very satisfying game to play.

Flip and Flop is brought to you by the people who brought you Astro-Chase. It is a wonderful piece of animated graphics, played on a scrolling 3D

chess board on several levels. very slick, but I found the playfield ously small and the goals to be

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NIGHT MISSION					on page 1
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Necromancer	Synapse Software	16/32	R/CD	R	29.95/24.95
Lone Raider	Atari	16	C		14.95
Frogger	Sierra Online	16/32	CD		22.75
Preppie!	Adventure Int.	16/24	CD		19.75
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achieved too high.

Parker Brothers have bought the rights to Q\*Bert and if they follow in their present tradition they will release a perfect arcade copy.

Pacman is a luge area now knowers out of the silicon maze two playshol versions stand out. For traditionalist, gawbreaker is fast and the ghouts are very well created. However Preppiel II gawbreaker is fast and the ghouts are very well created. However Preppiel II by Adventure International from level four onwards, is a much more enthulating prospect with all the usual professional grace of a Russ Wetmore games. Other notables include Ghost House Service Committee of the Commit

novel digression.

Scramble and Defender games have been popular since their conception in 81. Usually any game with a flying battle wagon on a scrolling landscape is thought of as one of the two — that's

how I think of them anyway.

This is another area in which Synapse
Software rules. Mike Potre is their leading programmer in this field and his
mastery of horizontal and vertical scrolling is stunning. Thiles to his credit are
Protector (versions I and II), Shadow
World and Nauthis.

By far my favourite by Mike Potter is Nauthus, because of the excellent selection of colours, the slick scrolling and the deep bassy tune it plays on the title page. For this novel game to be really enjoyable, two players are needed. The computer is well above human skills and gets very depressing very quickly, Both Nauthlus and Shadow World

scroll different sections of the screen in different directions and each player can appear at two places on the screen. Shadow World is very close to Defender, the major difference being that the

der, the major difference being that the invading aliens descend in Battlestars and then pour out.

The objective is to destroy the bases when their defences are down and before they land. This is an excellent one or two player game, although it takes some time to relate the rules to the game. It's one of these games which grow on you, but I can envisage it getting dull after a while.

Protector II places you at the controls of a Needle Fighter as the heroic SARCON II

saviour of your home planet. It is a rather boring theme for a rather boring game — not as enjoyable as Protector I.

Perhaps the best scramble type game available is Fort Apocalypse. It is 32k, but it utilises fine scrolling and very large sprites.

The hardest Scramble game I have found is Sea Dragon by Adventure International. It is ridiculously difficult, but it is possible to skip levels by inserting a joystick into port 4 and pressing your fire button.

Adventure International are reported as saying that it is made that difficult to give long lasting value for money and challenge. My personal belief is that Russ Wetmore is a sadistic and cruel programmer! Those who liked Preppiel and Preppiel if and want a Scramble and Preppiel if and want a Scramble.

game, then Sea Dragon will be for them.
Purists will find Airstrike and Airstrike II very enjoyable. For me they just

hit the spot. Both are by English Software for £14.95 — a meagre price for such excellent games.

Atari also have a version of Scramble, which is now well known. Caverns of Mars is a poorly made, roughly finished, overpriced game with little resemblance to the original, a difference which works negatively!

I place a warning here. Caverns of Mars III has been released, called Phobos. It is a truly horrendous game avoid it like the plaque.

There are four particularly striking variations of Defender. Defender by Atain is the best copy of the arcade game, and I personally prefer it to another strong contender Repton. However, many of these who helped me to compile this article preferred Repton. The final decision is based on personal opinion and whether or not you have a disc drive. Sky Blazer is rather loosely based on Sky Blazer is rather loosely based on

both Defender and Scramble. It involves undertaking several totally impossible missions. The graphics are boring and the scrolling is very jerky using none of the built-in scrolling facilities — I loathe this game.

Choplifter also uses software scroll-

Choplifter also uses software scroling, however it is very smooth and there are many reviews around. It is overall a very well produced game, available on both disc and cartridge.

# OTHER BITS!

The remainder of this section covers various miscellaneous themes. Pognan by Computer Magic is a smashing little program. You play the part of a public service employee who turns out the street lights during a black out from a pogostick. If does, however, boil down to bouncing over the various objects which scroll towards you.

On later sheets you must jump over cats, ducks and a unicyclist whilst avoiding the killer partor. Throughout the game a very relaxing tune plays continually preventing you becoming frustrated—rather like a sedative.

frustrated — rather like a sedative. A novel approach to scramble was adopted by Zaxxon and the Synapse spin-off Bise Max Zaxxon. like mix spin-off Bise Max Zaxxon. like mix to scenario construction of the at because to Disabatofi. It is a very close copy, especially the disco version, and shibough perity, neither the disc or cusalbough perity, neither the disc or cusdiscopt perity, neither the disc or cusdiscopt perity, neither the disc or cusdiscopt perity, neither than the spin-order of the streen. you want to see that the program was not fully debugged, with what can only be described as glitches at the top and bottom of the screen.

Blue Max turns you into a British Fighter Pilot flying over the front line to destroy three prime targets in a German

The first few hits on your plane from ack-ack or enemy bi-planes knock out your manoeuvrability, machine guns, bombs or fuel tanks and finally you dive out of the sky, crashing into the ground. Every few miles you must land on an

ton.

airstrip then take off. To progress through the game you must bomb pri mary targets marked by the computer

The game can continue for up to an hour, although you only have one life with such ratings as Kamikaze Trainee. From its stunning title music to its final, definite crash, this is a marvellous program which must go down on my shortlist very near the top

It is pointless to point out that the best copy of Donkey Kong for the Atari and probably any computer is the cartridge version of Donkey Kong by Atari. It is modelled on the American version of Donkey Kong and so may seem slightly different in its screen layout and the order in which screens appear.

All this follows on the recent tradition by Atari for a move towards as close a copy of the arcade original as the computer's hardware will allow.

A game soon to be released by Atari is Jungle Hunt - already available for the VCS. This multi-stage game follows the exploits of an explorer attempting to find Jane and release her from the cannibals. The graphics routines are very complex, especially the co-ordination of player missiles with the screen memory. A review of this game will appear in this magazine at a later date. Donkey Kong Junior is also planned for release soon and, although I have not seen it yet, but it should be good. For those who already have Donkey Kong. this is the perfect sequel. However, I find the arcade version impossible.

Rather like Michael Jackson's album Thriller, Miner 2049'er has been in the top ten sales for the Atari for months. This was a first attempt at a game for the Atari by Big Five, a leading software house for the TRS-80. This game has been reviewed by almost every magazine available, and highly acclaimed by

Its huge sales have led to many spinoffs for other machines and Bounty Bob now returns in Miner II, called Scraper Caper. It should soon arrive in this country. If you don't already have the game, then buy it.

For those who cannot afford such expense, then Leggit is an excellent game at only £5.50. It includes an animated title page multi-channel music and all the other features you would expect for an Atari game. The game rates as the best value game for the Atari. I hope that Ultimate Play the Game will follow Imagine's lead and release some of their excellent Spectrum games for the Atari at £5.50.

Leggit is almost as demanding as Spies Demise (now available for the BBC as Corporate Climber through Dynabyte). This game is very simple. You must run your spy between ascending and descending lift-like objects, finding clues and, as each end of the screen is reached, you rise a level to the next ramp. The game is very demanding and I find a Kempston Competition Pro-Joystick perfect. At the top of each screen you are given a piece of code and eventually, after completing eight screens, you decode the message and send it off to Penguin Software.

The program plays tunes continually and has options for keyboard, joystick and paddle play. I have played this game almost continually for a month and enjoy it immensely.

Recently released was The Spy Strikes Back which is a graphical adventure as opposed to a version of Donkey Kong. Again it is an excellent

Perhaps the most appreciated game in my collection by all my playtesters

was Mountain King by CBS (previously After pressing start, the adventurous player dances to Grieg's In the Hall of

the Mountain King from the Pier Gynt Suite, until start is pressed again. To continue the game, the player must collect 100 diamonds from a choice of thousands scattered liberally around



When all these have been collected the player must search for the magic flame. As you approach the flame, a background tune increases in volume. not visible and you must use your torch

The final task is to leave the mountain avoiding the kings minions while more bars of Pier Gynt are played, increasing in speed all the time. The game involves a great deal of scrolling and has splendid animation of all characters, especially the Arachnid who patrols the floor of the subterrainean kingdom. The tunes are complete utilising many of the octaves available on the Atari. This is another of those 'must-buy' games.

Electronic Arts entrant is Hard Hat Mack. This game utilises the entire 48k available for the Atari, and is only three screens. It uses mode eight graphics. hoping to use artifacting. Unfortunately, in the UK it is black and white. If it were not for this problem, the graphics would be very detailed. It is packaged in a very well produced folder including interviews with the programmers.

Last year, the Computer Game of the Year award didn't go to any of those arcade hits like Pacman or Defender as it had in previous years, but instead it went to Wayout, an incredible 3D maze game

Wayout's graphics are terrifyingly fast and smooth, with a choice of 26 unique and claustrophobic mazes, ranging from open, spacious mazes to tight and narrow intricate ones. There are gales blowing through many, which send you off course and eventually re-

To hinder you further, the Pentangle appears (a vertically rotating rectangle) whose playful antics centre around annoying you by stealing your compass and map marking equipment. This equipment is used for displaying a top view of the expanding maze as you explore it.

Wayout, not surprisingly, is a 48k disc based game, but for those of you with unexpanded machines, be frustrated no

IOWE	OWN ON TH	E SOF	TWAI	RE	2
PROGRAM NAME	MANUFACTURED BY	RAM K	FORMAT	XL C	OMPATIBLE PRICE E
O'Reiley's Mine	Datasoft	16/32	CD		21.45
Diamonds	English Software	16	CD		9.75
Flip and Flop	First Star Software	32	CD		24.95
Juice	TG Software	32	CD	N	19.95
Pharoahs Pyramid	Master Control S'ware	16/48	CD		24.95
Preppie! II	Adventure Int.	16/24	CD		24.95
Jawbreaker	Sierra Online	8/16/32	R/CD		22.95/19.95
Pacman	Atari	16	R		28.95
Ms. Pacman	Atari	16	R		28.95
Tumble Bugs	Datasoft	32	D		19.95
Mousk Attack	Sierra Online	32	D		21.95
K-Bazy Antiks	CRS	16	R		25.95
Protector II	Synapse Software	16	R	R	
Shadow World	Synapse Software	32	CD	N	
Nautilus	Synapse Software	32	CD	N	19.95
Fort Apocalypse	Synanse Software	16/32	R/CD		29.95/25.50
Sea Dragon	Adventure Int.	16/32	CD		19.95
Airstrike	English Software	16	CD		6.75
Airstrike II	English Software	16	CD		9.95
Caverns of Mars	Atari	16	RD		28.95/25.95
Defender	Atari	16	R		28.95
Regton	Sirius	48	D		28.95



longer. From the makers of Wayout comes an equally incredible game called Capture the Flag on an 8k cartridge. It is effectively an action version of Wayout with music, enabling up to two people to play.

The purpose of the invader is to get to the exit, avoiding a fatal encounter with the defender. The defender must destroy the invader by slamming into him. The graphics are as stunning as Wayout's, if a little slower.

# ORIGINAL

The remainder of the article is devoted to original games which do not come under any of my artistically oppressive classifications

Other than action adventure games, Synapse are well known for releasing totally original game concepts. Of the games they have released, the two most easily available are Picnic Paranoia and Claim Jumper.

Picnic Paranoia is the most novel of the two and plays a very good rendition of 'Flight of the Bumble Bee' from the Carnival of the Animals. Soon you'll be able to spot a computer user by whether or not he whistles Beethoven when he's happy.

The title page introduces each character by name as they walk, fly, crawl or slide onto the screen, whilst George uses code to spell the name of the game, fly swatter in hand. In the game, you protect your food from the ants who crawl on to steal your booty. You have to protect the food on the tables with the aid of a fly swatter and occasionally a can of insect killer which acts rather like a bomb.

To aid the ants, however, is their secret weapon, the deadly wasp which, I might add, splats with wonderful finality. Overall the game is rather lengthy and not fast enough.

Claim Jumper only works as a two player game and only then if both players are evenly matched and violent. Basically it is a variation on Boot Hill, varying only in that it involves collecting gold, converting it into cash and then

storing it in the bank. The game became boring very quickly and now I only play it to listen to the music.

About the latest release from Synapse is Drelbs, a very silly game. The first phase of this two phase game is based on a board of rotating fences which must be moved to form squares.

Preventing you is The Face, a stripped maggot and an evil monster which has the dastardly task of destroying your squares. The maggot moves around the edges of the screen, shooting into the central play area and unleashing bullets which rebound around the maze area of fences.

Occasionally a girl's face will appear in one of the previously built squares. This is your cue to dash to your heartthrob to receive a slobbery kiss! Eventually when you have completed as many boxes as is possible, large numbers of Drelbs will appear in the boxes. You must then run into these squares to continue to phase two.

Here all you need to do is to avoid

The Face while collecting Drelbs and transporting them to safety - in other words run over the creatures which look like you in a frantic dash. Overall this is a great game to play although progressing through the levels is slow. To date, Atari's most astonishing

game is Pole Position, the well known 3D car racing game taken from the On the first track, you have to set a fast time to get a good position on the grid for the main race

The secret to the game is the fast realistic action, the thrill of screaming around corners at 160mph while avoiding the other cars on the track. If you are only going to buy one game, then this is the one you should get. I may be repeating myself here, but I promise this is the last time I will say it (he said nose growing with every utterance).

Also from Atari is Tennis, very similar to the Activision version on the Atari VCS. I personally loathe the game, particularly as I am continually thwarted by the vindictive attitude of the computer opposition. I have won three points out of four full games.

For those of you who like chess, Sargon II answers all your needs. As well as being able to play a good game of chess, you can also start the game from any position. This is useful for solving newspaper chess problems. There is a choice of levels from novice (which beats me every time) to expert.

\*All the prices quoted are those charged by Silica Shop from whom all the games included in this article are

### LOWDOWN ON THE SOFTWARE

PROGRAMME	MANUFACTURED BY	RAM K	FORMATS		PRICE
Sky Blazer	Bröderbund	48	D		22.95
Choolifter	Bröderbund	16/48	RD		27.55/23.75
Pogoman	Computer Magic Ltd.	32	CD		28.95
Zaxxon	Datasoft	16/48	CD		29.75
Blue Max	Synapse Software	32	CD		22.95
Donkey Kong	Atari	16	R		28.95
Miner 2049er	Big Five Software	16	R		29.75
Scraper Caper	Big Five Software	16	R		29.95
Leggit	Imagine	16	C		5.45
Spies Demise	Penguin Software	32	D		14.95
The Spy Strikes Back	Penguin Software	32	D		14.95
Mountain King	CBS	16	R		28.45
Hard Hat Mack	Electronic Arts	48	D		29.95
Wayout	Sirius	32	D		25.95
Capture the Flag	Sirius	16	R		USA
Claim Jumper	Synapse Software	16	R	R	29.75
Picnic Paranoia	Synapse Software	16	R	R	29.75
Dreibs	Synapse Software	32	CD	N	22.45
Pole Position	Atari	16	R		28.95
Tennis	Atari	16	R		28.95
Strip Poker	Artwork	40	D		USA
Sarnon II	Hayden Publishinn Ltd.	16	C		USA

FORMAT D - Disk Rosed C - Cartridge

XL - Compatible

N - Programme will not work with new XL-range Price as quoted by Silica Shop R - Cartridge will not work with new XL-range USA - Program is only available in USA

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# VEGAS INVAUEKS

trade fair in the world — about five PCW shows rolled into one! It's not just all computers either — the CES features everything from fridges to car stereos.

Although the CES is a good opportunity for reporters to find out what's new for the coming year, the main business in about selling. Every hotel, not contain year, the main business in about selling. Every hotel, not all over before the above by players from all over before the show by players from all over the manufacturers — a poor performance at the CES may well mean than new product is shelved and never find the report of the product is shelved and never find the report of the product is shelved and never find the report of the product is shelved and never find the report of the product is shelved and never find the report of the product is shelved and never find the report of the product is shelved and never find the product is shelved and never find the product is shelved and never find the product is not never find the product is not never find the product in the product is not never find the product in the product is not never find the product in the product in the product is not never find the product in the product in the product is not never find the product in the product in the product is not never find the product in the product in the product is never find the product in the product in the product is not never find the product in t

This CES was the turn of the American software houses to steal the show. For the last three years it has been dedicated video-game specialists like Atari, Activision, and Imagic who have stolen the limelight with their award-winning video-games and whize-lod programmers. But no longer.

winning video-gantes and programmers. But no longer.
The new glamour names in American electronic games are software companies like Synapse, Broderbund, Data

One day I was sitting at my desk quietly dozing when I was suddenly shocked out of my daydreams. What? You want me to go to Las Vegas. USA to report on a computer fair! That's right folish — the Editor finally flipped and sent yours truly on an all expenses paid trip to the Consumer Electronics Show in America.

Well. I couldn't pass that up could I? So very shortly afterwards, my bags all packed, I set off for the U.S. of A. and the dream town that is Las Vegas. Here's

what I found there

Commodore 54.

Other newses in the pipeline from Datasoft include the first officially licensed Bruce Lee Kung Fu game!

O'Reilly's Mine offers variations on the thems of proprieting for processing.



metals and clocking up points on your

computer.

Epyx, of Temple of Asphai fame entered the show with a fisful of new titles. A strong sports theme was evident in titles like Summer Games and

1 0

The World's Greatest Baseball Game.
Any new Epyx title is watched closely in the States especially since the chart-topping success of the company's games — Jumpman and Pitstop last

No software house set the pace in 1983 more than Synapse with smash hits like Zaxxon. Fort Apocalypse, and Blue

Once the legal wrancle stopping the import of Synapse games has been resolved, bucky flars and Commodore of owners can look forward to Dimension X, which boasts 3D-style graphics even more impressive that, dataon look of the common state of the past - to the new states of the common state of the common st

Can't wait!

The most interesting of the newcomers to the CES were Electronic Arts — a company with a whole lot of hype — but

some good new games as well. Plaball Construction Set — already teviewed in C&VC. March — enables you to design your own pin table by dragging the various play mechanisms around the screen with the joystic. Acheron is attelety war game based on Chess, and Hard Har Mack is an arcade-style climbing game.

Electronic Arts games are for

ET APPLA

Atari computers and the Commodore 64, on disc only and come distinctively packaged in record-like sleeves.

Most of the software houses in the US, are now concentrating on the Commodore 64, Atan computers, the IBM PC, and Apple as these machines represent the largest marker. The Sinclais scene is very flat in the US, with just one piece of British software — Melbourne House's Penetrator — attracting the

piece of British software — Melbourne House's Penetrator — attracting the occasional player on the Times Sinclair stand. Quicksilva were the only British soft-

Quicksilva were the only British software house to have their own stand at the CES which served as a sort of clubhouse for British journalists and buyers visiting the show.

The only really good news for Spectrum owners to emerge from the show is Sega's decision to license Thorn EMI to produce their titles under licence in the IR

The wealth of hit arcade games in the Sega range promises a real treat for Spectrum owners with titles like Zaxxon, Turbo, Buck Rogers, Congo Bongo and many more.

Sega titles for the Spectrum will be matched in the summer by "name games" from Parker Brothers and Atarisoft — which all adds up to tough competition for our own home grown

competition for our own home grown
Spectrum software.
Another software show-stopper was
Broderbund's Lode Runner — a

Personal robots were all the rage in Vegas.

game which has topped the charts in the U.S. for the last six weeks.

HesWare's stand attracted the autograph hunters as Minnesota Fats — the famous American pool player — was Jemonstrating his Pool Challenge game and taking on all comers.

Another personality attracting attention was Mr Adventure himself, Scott Adams — drawing the crowds to the Adventure International stand.

Dozens of Penthouse Pets also stracted a lot of attention at the show—handing out signed photographs of themselves. What's this got to do with computer games. I hear you ask? Not a lot really! But if Nadine should ever read

Something else which didn't have much to do with computers came to much to for which computers came to solve the control of th

doing the washing up and telling jokes in every household in the country before the turn of the century.

The ones which you will probably be aware of already are Topo and Fred from the American company Androbot. Both these robots recently went on sale

in the UK.

Topo is the deluxe model who can walk and talk but, if you want him to do anything else, you'll have to wait for the add-ons.

Fred is a toy. Fun — but not as much fun as say — Scalextric, Action Man or a BMX bike!

I could go on to tell you about my hazardous journey back home from Vegas, getting stuck in Dallas and having to explain why I was a day late back at the office still clutching an autographed picture of Nadine the Penthouse Pet. But I'm afraid that's all we've got space for!

By Eugen Lacey



This is Topo (right) from Assertion

Above, left to right, and the final factority for the Country for the Cou

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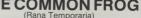
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#### SHUTTLE-BRC

Let's start with another bug that I've just noticed crawling from deep within the pages of February's book of games.

Shuttle for the BBC, on page 45, lost a character at the end of line 540. Time, for future reference, is equal to zero. (... TIME=0)

#### ATARI 600/1200

Atari listings have been causing a few problems with the introduction of the new 600 and 1200XL models. I've been getting calls recently from readers asking whether programs written for the 400 or 800 will run on the newer models.

I've actually spoken to Atari myself and was told that there should be no problem, on condition that only normal

Although a new operating system is used in the 600, all pointers remain the same. This means that POKES to the character set or to the Player Missile Graphics are the same.

However, some clever programmers use their own routines to bypass the way the Atan's operating system sets up functions. In these cases, where jumps are made straight into the Atan's ROM, there may be some problems.

Meanwhile, if you've ever wondered what Australian programmers have to put up with, type POKE 755, 204 on your Atari to find out

#### PLAY IT AGAIN

Someone called R. Timothy from Rumney, Cardiff, writes in with some useful addresses for restarting some of the Acornsoft games on a BBC B after you've pressed BREAK.

If you've interrupted your game of Rocket Raid, then there's no need to re-load it - just type CALL 678, press return and then press space. The same goes for New Snapper, but change the 678 to 657. To restart Killer Gorilla, CALL 6135, press return then press

#### OWARRK - 64

Planet Qwarrk for the Commodore 64 from February's issue suffered from some unclear printing at the end of line 440. The colon (:) before the final F should, in fact, be a semi colon (;).

#### DIY REPLIES

Here's a way of cheating on Superior Software's Q\*Bert for the BBC B. When the computer asks you for a skill level. press BREAK and ESCAPE together. Then type this line

4017 VDU ?PCHAR1%:SOUND 1.1.55-(FY%-1%), 1:NEXT: IF MEN%=1000 THEN 5000 ELSE 3015. Then type RUN. and you now have over a thousand lives.

This naughtiness comes from the pen

(well, typewriter ribbon actually) of Damien Rew from Balcombe, West Suswhy there isn't a top 10 score section for the BBC. Well, Damien, I think you've just answered that one yourself.

#### YEARBOOK REVISITED

Returning for one brief moment to the Yearbook, line 16910 of Vespozian Affair for the Atari should end in J=I.



Write to me at Bug Hunter, Computer and Video Games, Durrant House, 8 Herbal Hill, London, ECIR SEJ. Or phone We on 01.278.3881.

#### SPLATTING BUGS

best-selling Splat for the Spectrum for Incentive Software. Whenever you score 50,000 or more, says Gregor Rankin from Belfast, the machine crashes just after generating the hi-

code. If you've had this problem with your copy of the game, then let me know. It may be a faulty batch of tapes, or there could actually be a bug in the program.

#### IMAGINARY BUGS

Ross Scott writes from Burghfield Com mon near Reading about Imagine's latest pride and joy, Stonkers. I have yet, he says, to complete a game owing to the program's crashing. It leaves a

BY ROBERT SCHIFREEN

coloured, flashing square on the screen and further play is then impossible.

Well, Ross, I've spoken to Imagine and was told that there was a fault in one of the machines used to produce the first batches of Stonkers. They managed but there could still be a few left. The game has been tested heavily, they assured me, but because it's so compley there may still be some bugs lurking deep within the code. If you find one, please let me know.

Imagine was quick to point out that all of their games carry a lifetime guarantee. Quite what that actually means I can't be sure, but if you have a problem with your copy of Stonkers and you're still alive then send it back to Imagine in Liverpool and they'll rush a fresh copy as fast as the local postman can walk.

#### VIC SCREENS

Roger Walkden from Park Road, Beckenham in Kent writes in with a useful

If you POKE 36896, I the entire screen will move to the left. Change the 1 to an 11 to return to the centre, or change it to 22 for the right hand side. Anything larger than 22 will make the screen start to disappear off the edge . . . and by 61

#### LUNAR IETMAN

I've also had a few letters about Lunar Jetman from Ultimate. Approaching the alien base in your buggy sometimes causes the program to crash. Ultimate says that there may be a faulty batch of tapes - if you think you have one of them, they'll replace it for you if you return it. No doubt they'll refund your postage as well.

#### WRITE THROUGH MICRONET

There are now three ways you can get in touch with the Bug Hunter. As well as phone (01-278 3881) and letter, we've now joined Micronet 800.

If you're a member of the Micronet database then you can write to the Bug Hunter via Prestel Mailbox. My account

I'll try to reply to every message within a day or so, but there will probably be certain times during the month when it will take a little longer. After all, I have to write this page you know.

#### MORE VIC BITS

numbers for Vic owners, courtesy of John Jones of Eastham, Wirral.

SYS 234 is the same as pressing RUN STOP, RESTORE, SYS 64802 simulates switching the machine off, and instead of using "PRINT" with a CTRL key to change colour, use POKE 646,0 for black, 1 for white, 2 for red and so on.

Imagine luce the 7 copies eft. The y, they that all

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Ultimate Play The Game is a trade name of Ashby Computers and Graphics Ltd., The Green, Ashby de la Zouch, Leicestershire, Tel (0530) 411485. Dealer enquiries

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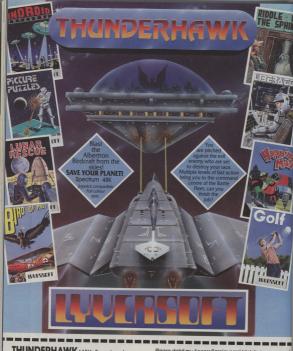


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By Garry Marshall

### **MAKING THE MOST OF YOUR 64** PART 2

You can produce sprite graphics on the impressive. They are large so they can be highly detailed, they can be magni-

Unfortunately, though, the Basic on the Commodore 64 provides no support to generate sprites must consist of masvarious registers in the Vic graphics chip that produces and controls the

sprite graphics. A sprite is 24 dots wide and 21 dots high. It is represented in the usual way by using a 1 for a dot that is "on" (foreground colour) and a 0 for a dot

that is "off" (background colour). Thus, it takes 63 bytes to store a description of a sprite, although the Commodore 64 allocates blocks of 64 bytes for them and then makes no use of the last byte. Up to eight sprites can be

maintained at the same time. The illustration shows a design for a sprite, and its description is included in the DATA statements of the accompanying program. This program maintains three sprites, all of which have the same shape, but different colours.

The first problem that we have to face is where to store the sprite descriptions. We shall put ours in the cassette buffer, which extends from location 828 to 1023. If you do the necessary arithmetic, you will see that there is only room for three problem since several sprites can share the same description.

However, if you want to write a program that uses more than three differently shaped sprites, you must delve further into the mysteries of the Commodore 64 to find out how to make yourself a sufficiently large amount of storage that will not be affected by anything else than the computer may

Now we come to the part where we have to start remembering the large numbers which are the addresses of the Vic registers that control the various

properties of the sprites The addresses in the following table are vital, controlling the colour and position of each sprite, and showing where the description of the sprites are stored. The sprites are numbered from

To find where the description of sprite 0, for example, begins, the com-

sprite	location pointing to description	colour	X position	Y position
0	2040	53287	53248	53249
1	2041	53288	53250	53251
2	2042	53289	53252	53253
3	2043	53290	53254	53255
4	2044	53291	53256	53257
5	2045	53292	53258	53259
6	2046	53293	53260	53261
7	2047	53294	53262	53263

puter multiplies the contents of location 2040 by 64 to get the address.

So if we are to put the description of a sprite at the beginning of the cassette buffer, we must store 13 in location 2040 (with POKE 2040, 13), since 64\*13 = 832 is the multiple of 64 that gives the address that is nearest to the beginning of this huffer

The X-positions and the Y-positions that are stored in the locations given in the table give the x- and y-coordinates of the top left corners of the sprites.

In addition to these registers, location 53269 controls whether the sprites are

on or off. Placing a 1 in bit 0 of this location turns sprite 0 on, while a 0 in bit 0 turns sprite 0 off. The other bits in this location control the other sprites in the same way. When sprites meet each other, their

priority, that is to say the way that it is determined which sprite remains visible, is determined by their numbers. Sprite 0 has the top priority, sprite 1 is next, and so on.

You will find a program for displaying and moving sprites below. It displays three sprites and, when a key is pressed, it sends them off for a short journey.

5 PRINT"7"

10 FOR K=0 TO 62 20 READ B

30 POKE 832+K, B

40 NEXT K

50 DATA0,16.0,0,56.0,0,40.0,0,56.0,0,56,0,0.124.0,0, 84,0,0,124,0,0,254,0,1,255,0 60 DATH 3,255,128,7,255,192,15,255,224,31,255,248,

63, 255, 248, 127, 255, 252, 255, 255

70 DATA 254,255,255,254,248,56,62,0,56,0,0,16,0 80 POKE 2040,13:POKE 2041,13:POKE 2042,13

90 POKE 53269,7

100 POKE 53287,2:POKE 53288,3:POKE 53289,7

110 POKE 53248,52:POKE 53249,50 120 POKE 53250, 100: POKE 53251, 100

130 POKE 53252,150:POKE 53253,150

140 GET C\$: IF C\$="" THEN 140 150 FOR K=51 TO 200

160 POKE 53248,K

170 POKE 53251, K+50

180 POKE 53252, J: POKE 53253, J

185 J=K+100: IF J>255 THENJ=K 190 NEXT K

200 GOTO 140



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#### A DISTINCT LACK OF HARMONY

MUSIC

BBC owners who'd like to try their hand at a quick symphony or two can buy the Music package from BBC Soft.

The program works on either model Beeb, but is really pretty basic in its features. The introduction in the manual actually states that, because it runs on either model, the program has not taken full advantage of the commands available. The program has four different envelopes defined, and you can therefore play in four instruments. To enter a tune you place the notes on the stave on the screen. You can then play the tune or edit it. You can also record it to tape to replay, or to re-edit, at a later date.

Unfortunately, the program only uses one voice of the computer so you cannot produce omission, which should really

When loaded, the program asks for a command which can be any of seven. These are all accessed via the red function keys. Here you can do such things as edit your tune, play it. erase the tune in memory or change tempo and/or instrument.

Notes are entered onto the stave using the top two rows of the keyboard. Sharps and flats are available across just under two full octavés. Rests are entered with the space bar - you cannot enter the tunes in real

To edit a tune you can move the program's cursor over the stave. As it is moved across, the notes will play in turn. You can on the keyboard - lower case then either alter, delete or insert for the lower octave, and upper notes. The erase function allows

the three staves. You also have the top two rows of the keyboard the option of erasing all three at

The Tempo command is used to set the speed at which the notes will be played. There are ten different settings which you can use. There are also four different instrument sounds to not really very realistic, it's certainly an improvement over simi-

lar programs running on a Spectrum. The four voices are organ, The program comes with a reasonably understandable manual, and it's quite easy to use. Unfortunately, the lack of

fun. The graphics for the notes If you'd like to form your own opinions, then the tape will set you back £10. Well it is from the

MUSIC (BBC SOFT) Performance User friendliness

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#### MUSIC MODE MUSICMASTER

Budding Mike Oldfields who'd rather stick with official Sinclair software can now try Musicmaster. Written by a company called Incognito software, it allows you Spectrum.

When it's loading, the five music lines appear on the screen the start. The notes are crotchets, of which there are four to a bar. Once loaded there are two possible modes you can enter -

Stave mode allows you to enter notes on the stave in two octaves (a total of 17 notes), by pressing the appropriate letter

for upper. Keyboard mode lets you use as a musical instrument to play in real time. An overlay is supplied for using the program in

keyboard mode. There are 10 white notes and seven black Whatever mode you are in, i.e.

of getting information on the characteristics of the music including pitch, duration, key sig-



other Spectrum programs of this sort, length of notes is controlled

To create a tune you must give the program the required key signature. All notes will then be readjusted. Various keys are used to insert either a rest or a

You also have the option to can edit it, tabbing through the tune changing certain notes as you listen.

Once perfected, you can record the data onto cassette to at a later date. The maximum length for a tune is one thousand notes.

Overall, this program is quite easy to use, and certainly gives more guidance and information than any of the others. It's impossible to create any wonderful effects, though, owing entirely to the Spectrum's hardware

Musicmaster cost £9.95 and should be available in your local computer shop.

MUSIC MASTER Performance User friendliness Presentation Complexity

#### **FACE THE** MUSIC ON A DRAGON COMPOSER

If you want to face the music with your Dragon, then you've a

long task facing you with Microdeal's offering. The program may be pretty versatile, but the method of entering the tune is

The program, called Composer is what Microdeal calls a you have to enter all of the tune into the micro's memory at the start. The machine will then convert the whole tune into a playfacility to play live, i.e. in real

The system does, though, exploit the Dragon's impressive the demo tune supplied with the program was the best sound that I've ever heard from a humble

The main part of the program s in Basic, which probably accounts for the total lack of anything approaching speed when it comes to compiling. Anyin the Basic listing. The Dragon you must enter a value for each voice for each note. Even if you're only using a single voice. you must still enter a rest for the



time, but I can assure you it's

Once you've entered all the notes into the program you type RUN. The menu then appears and you can select the option to

Compilation is, in a word, slow In fact, it's very slow - around one note a second. The demo tune supplied was 232 notes in length and took just over three minutes to compile. Once you have compiled, you can select a



different option and then just sit back and listen. The final result if you're willing to spend some

time at it, can be very impressive. If you don't think you're quite up to Ludwig's standard yet, then tunately, I didn't have a spare week to type one in, but if they're then I'd be very happy (I'd also

To edit the tune is simple. You exit the program and can then edit the Basic program just like any other. Changing notes is therefore possible, but hindered slightly by the machine's lack of decent editing facilities. You can

this way, too. The best way to judge such a program is by the final result, and worth the £15.00 charged by Cornwall-based Microdeal.

DRAGON COMPOSER Performance User friendlines Presentation

#### HOW TO CHANGE YOUR TUNE

SPECTSOUND

issue then you could always try As far as producing sounds

goes, the programs are very similar. The middle row of the C&VG. keyboard can be played like an organ, while two other keys are used to shift the octave up or

It's unfortunate that the Spectrum's sound capability is so liware. This program is written in magazine quality program! Lucky Basic and the only sound possi- you - you've already purchased

ble is produced by the Beep command. It's possible to make machine code subroutines in the program, but for some reason

Potentially the most exciting to record and edit tunes in the computer's memory and to play them back or store them to cassette. However, a limit of the that the program can only play

one note at a time. Recording is not done in what's known as real time. This means that you can enter notes only into the memory and not the timing. If you want pauses or long notes than you'll need to enter rests as well. This does have the advantage, though, of then play back at a normal speed

The keyboard does not function as a true organ, with respect to the way notes are produced. What should happen ideally is long as you have your finger on your finger off. Doing this on a



Spectrum is difficult. In fact in Basic it's impossible.

So what the company has done is to provide notes of a fixed length. You then use two keys to either raise or lower this value. This will also vary the playback speed. This system is exactly as used in the Spectraphone listing in this issue of

C&VG produce a monthy game for most home micros but which is packed full of articles and reviews. It seems incredible that a software company could mited without adding extra hard- charge over £6.00 just to buy a

this magazine! If you'd like to compare the two for yourself, Spectsound is from PDQ software in Kent.

SPECT SOUND Performance User friendliness Complexity



#### COMMODORE IN GOOD VOICE

ULTISYNTH

sound features but no one has age for the Commodore machine

adequately. The program comes on cascomprehensive 50 page manual. is beyond the scope of the manual and, although it details all of the system's functions, the only way to really get to know it is to sit at the keyboard and play.

solution, it is cheap and works

Loading the tape takes just over seven minutes which gave me a little time to read the manual and to appreciate the comloaded, the main menu allows you to choose one of the seven

You're recommended to try option one first, so I did. This outs you into record mode. where you actually enter your tune into memory. Unlike any other similar program I've seen play in real time. What this means is that, when you play will the notes be as you played

them but so will all the timing as

The alternative to this is called compose mode, where the notes will simply be played back one by one with a fixed delay between the user. This program has a

compose mode as well. Playing from the keyboard uses voice one while voices two and three are for pre-set rhythms and accompaniments which you can program and then play along to. It's possible, and also quite fun, to have all three voices play-

to set different waveforms for each voice, alter the envelopes and add special effects like olide. Then there are pulse wave and pulse width commands. In and hi the voices. When you've worked (sounds like a sport) and more

And when Symphony Number 1 for Three Commodore 64s is complete, you can save the whole thing to tape in a form which the computer will reload



at a later date, just in case you discover you've left two consecutive fifths together. (That's a musical term, by the way).

That's not all. There's a lot more in the manual, and there's plenty that isn't, too. You'll discover so much by just sitting at the machine for a few hours. And the final results are pretty im-

This is certainly highly recommended for serious music enthusiasts and budding Beethovens everywhere.

Ultisynth runs on a Commodore 64 and is produced by Quicksilva. It costs £14.95

ULTISYNTH Performance User friendliness Presentation Complexity

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ACK again folks! I have to admit to a few hiccups in the Book of Games in the Feb. issue.

The shuttle program for the BBC micro caused some headaches. Line 540 should read REPEAT UNTIL ADVAL(0): TIME=0 and not TIME= as we printed. Electron owners came in for a bashing on the Front Gunner listing. The bugs overdid themselves and we missed part of the game, but we've got a corrected listing ready, so just send a stamped addressed envelope to us and please mark it 'Front Gunner'.

F for any reason you want your Spectrum checked to see if an upper case letter has to be entered in your program, here's the answer. Just replace INKEY\$ with LETAS -- CHR\$ PEEK 23556 and then check the letter with IFAS -= "S"

THEN GOTO 100. Mr Edwards of Wrexham has also sent Program Extra a tip that lets the computer wait up to three minutes for a key to be pressed: LET T=7997- USR7997. The variable T is length of time in fiftieths of a

second. This is particularly useful for pages of instructions where the user can move onto the next screen once he's finished reading.

HE Quantum Leap — the new Sinclair personal computer - looks set to repeat the performance of the Spectrum and ZX81, Sinclair have begun a new approach to home micros. The QL signals the end of the race to produce the cheapest colour computer and a move toward producing more 'professional' computers.

It's not that many years since the most a home micro could offer was 1k of memory and very primitive graphics. 128k. two micro drives, RS232 interface and hi-res graphics all for £400 three years ago was an impossibility - today it's a reality

The QL uses a Motorola 68808 - a 16 bit central processing chip. Most home micros, like the BBC and Commodore 64, only use eight bit chips. This new CPU is much faster and can handle a much greater amount of memory - the QL is expandable up to an incredible half a megabyte of RAM.

Another feature that was only found on much more expensive computers is 'multi tasking' - the ability to run more than one program at one time. The QL can, in fact, run a total of 20 simultaneously. So

you can write a letter and play Pac-man at the same time ...?

Sinclair have stressed that it's not a games machine, but with a 100k of memory and higher resolution graphics than the BBC, I'm sure software companies will be chomping at the bit to get their hands on a OL.

OU can now make a lasting impression on your Atari computer. Mr A Collier of Middlesex has discovered a way of customising the screen display on an Atari 400 so, whenever the system rest button is pressed, your very own personal message will appear on the screen.

This can be done by placing a small machine code program in the special location that the computer uses when it's turned on. The position of this location can be found by PEEKing memory loca-

With a little knowledge of machine code, it's easy to produce your own title pages. I LOVE C&VG perhaps?

ESIGNED characters for computers have always been tedious and difficult to use. You could spend hours keying in numbers before you found just the right shape and colour

Mr E Horner has produced a program that goes part of the way to solving this problem. This short listing for the Texas not only lets you design the shape of the character with ease, but also colour it

with any of the colours from 2-16. 10 CALL CLEAR

20 CALL SCREEN(12)

30 INPUT "CHAR CODE:": AS

40 INPUT "COLOUR:"-COLOR 50 CALL CHAR(105.A\$)

60 CALL COLOR(10, COLOR, 12) 70 CALL HCHAR(15.15.105.1)

80 PRINT "PRESS Y TO CONTINUE".

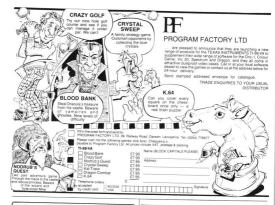
90 CALL KEY(O,K,S) 100 IF K=89 THEN 10 ELSE 90

110 END

HE Atari 600XL is claimed to be able to run all the software written for the older 400 and 800 models — that is as long as it's written by Atari themselves.

The new machine has had the ROM slightly rewritten but this won't cause any problems if the proper machine code entry and exit points are used. Unfortunately, many of the games written by independent software houses for the Atari don't use these standard routines. So remember to check the games before you buy.

This is the final Program
Extra for the time being
— so we'd just like to
thank everyone who
wrote in to us with hints
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	Mikragen	6.95	6.00	Hobbid	Melbourne House	14.95	12.95
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**COMMODORE 64** 



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# Two great one tade

**DEFUSION** Time is running out ... you are only

seconds from an explosive experience A live bomb ticks menacingly as you try to get near enough to defuse it. Unfortunately your path is littered with Booby Traps. To say nothing of a very determined Hit Man, who follows your every move as you race to stop havoc and

To further confuse you, you may only use each path once. So take care you don't get trapped. In the direst emergency it is possible to make a new path, but that will take the one thing you haven't got ... time!

WORMS What's slimy and nasty and ties itself ... and you in knots?

You control the worm as it grows and grows, relentlessly filling the screen with its segments. Take care to keep clear of your own tail, as contact means certain doom.

Only by exactly locating the Black Segments can you cross your own path. But watch out for the Bluebottles. You must eat one to avoid crushing yourself to death

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**DOUBLESIDER** 



HY ARE micros useful for music? And why would you want to turn your micro to musical ends when you could quite happily use up all your micro time playing games? The reason lies in the nature of music itself - a true art which demands great creativity and vet depends largely on a few simple numerical relationships. Mastering both these aspects of the musical process can be infinitely rewarding.

In the past couple of years computers have made great inroads into commercial music, to the extent that maybe half of the Top Ten records at any given time will use a computerised composition, sound production or recording device. So don't feel that the home micro enthusiast has nothing to offer the world of commercial music - experience gained on small machines can stand you in good stead in many of the most advanced studios in the world.

The example of scores of stars such as The Human League, Tears For Fears and Depeche Mode attest to the influence of computerised music.

There are three main ways in which standard home micros - as opposed to dedicated music systems such as the Fairlight Computer Musical Instrument - can perform a musical task

These are using built-in sound functions to play tunes, controlling additional hardware in the form of effects generators or "voice" cards to produce complex sounds, and controlling evisting musical instruments — usually synthesizers - for complex composition. We'll look at each of these three methods in turn, and conclude with a look at the typical computer-equipped recording studio as it may look in three or four years time.

# MAKING MUSIC

It's very simple to get some sort of musical effect out of most micros - all the programmers' handbooks will have a short listing to get a scale, an arpeggio or even a short tune.

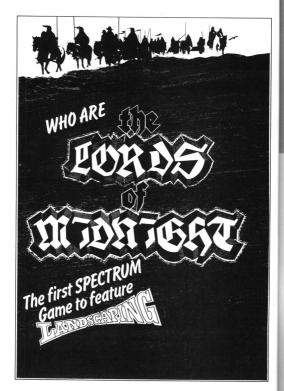
One obvious exception is the ZX81, which has no sound facilities, and the Spectrum is little better, although we reckon our music program makes the most of this machine. It can produce a single beep at various pitches and with various lengths, but that's about it, particularly as the machine uses a very basic piezo instead of a speaker. Lots of cheap amplifiers are available from Fuller. Kelwood, and others, however, and one of these is really vital if you want to make serious music on your micro.

Owners of the Vic-20, Acorn and Dragon are better off, with both white noise and one or more oscillators available. A few musical software packages for such machines are now out, but these are usually games or educational programmes rather than "compose your own symphony" types.



make their records top ten hits - and not just in the recording studio. Nowadays many instruments can be linked with computers, allowing groups to reproduce studio sounds when they perform live. Musicians like Vince Clarke pictured - the man who will be casting a critical eye over your musical efforts in our Micro Music contest - who uses a super-computer called the Fairlight CMI to help him compose hit tunes. We asked computer music expert Mark Jenkins to bring us the low-down on hi-tech in the world of pop.

Many top pop groups use computer technology to help



One for the Commodore 64 is Softcomm's Dancing Feats which uses a opystick as a musical instrument and can help you compose and replay quite complex accompanied pieces, but then the sound facilities of the 64 make this practical — there are three channels plus white noise, ring-modulator for complex tones, and filtering.

Similar facilities exist on the BBC B, Similar facilities exist on the BBC B, Oric, Sord M5 and lynx, so in practice quite complex sound effects or musical patterns are possible. These could consist of tunes in three-part harmony, perhaps accompanied by white noise effects for precussion backing — not exactly New Order, but better than nothino!

softmapi are some composition packsees available, such as Asar's Music Composer which will run on their 400, 500, 600 and 800XL models. It's a cartridge-based program which gives you have been seen to be a superior of the seen Music. Farange Music. Save, Bettieve and so on. Some of the musical instrument manufactures are going into mioment manufactures are going into mioment and Rollard's Commission programmes, and Rollard's Commission promiss, and Rollard's Commission propositions with drum machine-type counts and musical notation of your counts and musical notation of your counts and musical notation of your

This would involve a pretty substantial investment, but represents one logical step after your compositional imagination becomes limited by your

micro.

Compu-Music won't do much for the nature of computerised sounds though and, as we'll see, there's another way around that particular problem.

# SOUND ADVICE

The built-in sound facilities on most micros are very limited, for simple financial reasons—the number of users wanting complex musical functions would not justify the expense of the circuitry involved.

The next step, then, is to add a little more hardware, and the simplest units give a wide selection of sound and musical efforts which are ideal for writing into computer games.

The Petron Trichord, for instance, is a line black box for the ZX81 and Spactrum which has three sound channels and white noise generator for explosions, waves and random sounds. It has a musical range of more than eight octaves and can produce some very warding three-part harmony music, was a musical range and some produce some very or — in other words, for a 48K memory or — in other words, for all yeary easy to define musical notes, and no real knowledge of music theory is needed.

The problem with the Trichord and similar inexpensive units is that the quality of the sound is very basic—a simple sine wave in a lot of cases. You won't be able to sound like Vince Clarke without going to a little more

expense, because unfortunately the more complex "voice" cards tend to be manufactured for up-market computers

such as the Apple.

One of the great advantages of the Apple is the "slot" system, used to add on new facilities, and into these slots can be fitted voice cards such as the Mountain Hardware or Soundchaser

In a system such as Alpha Syntauri, these voices can be put to a vast range of fully professional uses. Sounds can be laboriously defined, swept with harmonic filters, split across a five-octave keyboard, merged and stored on disc.

Reyboard, merged and stored on disc. Real sounds can be sampled by the computer and replayed, and very length young composed on the computer. Games, be composed on the computer. Games, educational software and composer's aids are all available, and many of the country's top musicians and universities are using the system for a wide variety of music-related activities. And at the end of the day you can still work out your finances on it.

# MICRO CONTROL

Finally, we come to micro control of existing musical instruments. These would usually be synthesizers of one kind or another as previously mentioned, but recent developments have made this generalisation less accurate.

as we shall see.

Firstly, a brief description of the conventional synthesizer, which was developed by Dr. Robert Moog (as in rogue rather than mood — which is what you get for having Hungarian

ancestors) in the Saxies.

All the parameters of Moog's synthesizer were controlled by varying voltages, and so a pattern of voltages produced by a keyboard or an automatic
device (sequencer) when applied to an
oscillator would play a tune. For that
matter the tone (filter setting) and other
parameters could be voltage controlled.

parameters could be voltage controlled.
Micros excel at storing information
such as musical notes as we've seen, but
to gain direct access to a synthesizer is
difficult as micros produce digital information rather than voltages.

What's needed is a Digital to Analogue Converter (D/A) and although these are common parts of sequencer and other designs, they aren't exactly common in the form of a simple box. A design for the Spectrum has been

A design for the Spectrum has been published in the specialist magazine Electronics & Music Maker and a ZXSI design in Electronic Soundmaker magazine, both acting as sequencers which will store long strings of notes and plug into the Voltage Control input of a cheap single-note synthesizer such as Rolant's SHO Rolan

Help is at hand, however, with the MIDI, or Musical Instrument Digital Interface. As its name implies, this system speaks a digital language and operates in serial form as does the R\$232 computer interface, and so it's much more friendly to micros.

The cheapest synthesizer currently fitted with MIDI is Korg's Poly 800 at around 5600, and the system is becoming a much-needed standard. The synthesizer manufacturers are marketing interfaces which allow your micro to respeak. MIDI, and as it's a universal system there are theoretically no restrictions on which MIDI-fitted synthesizers can be used.

eas can pe ubea.

Sequential Circuits market a MIDI interface which allows the Commodore 8-6 to act as a versatile 2000-note self-to act as a versatile 2000-note self-to act as a versatile 2000-note self-to act and the control of t

The point about MIDI is that it can be designed into any digitally-controlled musical instrument, and so in the immediate future we'll see MIDI drum machines, pianos and even guitars. Anything fitted with MIDI can be controlled with your micro, so the realisation of a totally computerised studio is

very close indeed.

Looking forward a little, we can see that it will be very easy to use a micro to control musical instruments — within a few months you'll be able to plug your Spectrum, Commodore, Atari and so on into a professional synthesizer via a

relatively inexpensive interface.

Some instruments are already being designed with the ready-to-use memory capacities of home micros in mind, for instance MPC Electronics' Music Percussion Computer, a versatile drum machine which uses a ZX81 or Spectrum as a memory bank.

Sequential Circuits have a new system, Six-Trax, which uses a Commodore 64 to compose tunes, store rhythm patterns and move from one pattern to the next.

A Commodore 64, or certainly an

Apple, could sit at the centre of a bank of synthesizers and drum machines, playing compositions on them, helping the composer to come up with new songs and all the time displaying exactly what is playing and what options

are available.

Remember that micros can accept all sorts of inputs, from heat sensors, motion detectors, video cameras and so on, so it would be possible to compose

using all of these unusual signals. All these musical advantages derive from the familiar number-crunching capacities of the home micro, which leads us to wonder what Bach, with his lengthy but mathematically balanced compositions, would have made of the Lynx or BSC matched with a cought of the company of the company of the company of the company of the couple of the company of the company of the company of the company of the couple of the company of the company of the couple of the company of the company of the couple of the company of the company of the company of the couple of the couple of the company of the c



The best part of some games is the excellent sound effects which are often built in. The crash of an ill-fated driver in Road Race, the cheering crowds in international soccer, the extra terrestrial murmurs emanating from distant planets in far-off solar systems.

As well as purely abstract sound effects, computers can generate music. This means producing real notes in sequence to make a tune. Many programmers actually incorporate music in their games, either to supplement or to replace the normal sound effects.

If you've ever played China Miner on the Commodore 64, for example, you'll have recognised Scott Joplin's Maple Leaf Rag accompanying your game. Spectrum fans will have heard "In the Hall of the Mountain King" from Greig's Peer Gynt suite while burning the midnight oil in a last desperate attempt to escape the Mutant Toilest and the Bouncing Che-Mutant Toilest and the Bouncing Che-

ques in Manic Miner.

And so there came a time when software houses realised that the music in some games was so good, it would be worthwhile creating programs which did nothing but enable the user to play or hear music on his or her

micro.

A BBC tape landed on my desk recently which played Bach's Toccata & Fugue in D Minor in beautiful harmony for 11 glorious minutes.

Many software minutes. You want to be a second or software to make a second or software to make a second or software to second or seco

For the non-musical amongst us, a sequencer allows you to programme a set of notes into the machine which will be repeated over and over again. You can use this as backing, and then play the actual tune over the top, making it easy to produce reasonablesounding music with the minimum of effort — just like Duron Duron, really.

BBC owners who'd rather make their own sweet music than have another programmer do it for them can buy Music Processor from Quisilva, or the not-as-good Music program from BBC Soft. Quicksilva also has a Commodore 64 program named, in true Newspeak fashion, Ultisynth.

You'll find reviews of commercial programs elsewhere in this magazine, but if you don't want to spend your hard-earned money on them then you could always use the ones which we've printed.

The music listings ALL work (honestly, I've tested them). However, they're



obviously not as good as something costing 10 times the price of your copy of C&VG.

They will, though, allow you to play tunes on your micro. The listings as printed are quite simple and don't have an enormous number of special features, but you can add to them if you wish. Perhaps you'll want to give a greater range of notes, or special

If special effects are your interest then you'll need to know something about what's called the envelope of the note. There's a direct command for defining envelopes on the BBC. They take a little time to get to grips with, as does the envelope command on the Beeb with its 14 parameters!

Think of a single note played on, soy, a piona. As soon as you hit the note it rises straight to its maximum volume. Compore this to someone blowing a trombone. Unless the person blowing it has lungs like on air compressor, then the note will rise uncompressor, then the note will rise much less sharply— taking lime to reach maximum volume. This feature, of a note—how long it takes to volume—is called the Attack rate.

Got that? Good. Now imagine keeping your finger on the painot keyboard after you've played the note. The sound continues but loses some of its original volume. This is known as the rate of decay, which has nothing to do with nuclear reactors. The amount of time that the note stays at this reduced level is known as the

sustain time. After a while, though, it will decay to nothing. The speed at which it does this is known as the decay rate.

So a note is made up from four definable values, namely attack, decay, sustain and release. If you've got one of those small Cosio VL-tone instruments, you'll now understand what

the ADS\$ setting means!
Developments in technology are
helping to widen the part which computers are beginning to play in music.
Many bonds now perform exclusively
and the post of the post of the property
although a large amount of skill is still
required to produce something the
property of the produce of the produce of the
gradually changing to that of a computer programmate.

One of the most popular (and expensive) synths around is called the fairlight and no big-time, super-rich band should be without one. For your 220,000 you get a computer complete with keyboard (both sorts) and even two 8-inch floppy disk drives to store the tune on. Imagine wearing that on a strap round your neek.

Programming such a beast is no mean feat, but you can get some of the most amazing effects. It also has the facility to do what's called Sound

Sompling.

Normally, when you use a system.

Normally, when you use a pythen.

Normally, when you use in public is couple of dozen pre-programmed sounds which you can then after out of all recognition (the cliches are really living loady) by pressing a lew buttons of the public in the public in

You've probably heard that awful record by someone going under the name Wonderdog, called Ruff Mic. I featured a dog barking o tune (and we all know where he lived, and what his favourite composer was, don't web?. Now I hate to disoppoint you to the here of this record (you might call it a hot dog) was an computer. All the here of this record (you might call it is not dog) was a computer with the composer was to pile you dog the here of the composer that his composer to the keyboard and it would sound like a woof-work.

Following on from the success of such idiotic material came a flock of sheep singing Baa Baa Black Sheep. Needless to say, it didn't make Top of the Paps (or TOTP as they call it in Smath Hits).

So that's about it, really. As you've realised, computers and music have a lot in common. And it's a link which is growing all the time.

# BEYON

CHALLENGING SOFTWARE

























Zap! Pow! Kerrrunch! Shut up a minute can't you! I'm trying to tell the readers about next month's terrific issue of Computer and Video Games. These Superheroes are a really noisy bunch - even louder than a bowl of Rice Krispies! Still, now that I've managed to get them out of the office for a few minutes, I can tell

you all about the amazing things we've got in store for you in our May issue.

Mr Adventure, Scott Adams, has been hidden away for months now working on his brand new Adventure games based on two superhero characters, Spiderman and the Hulk. We've got an exclusive review of these two brand new games, plus an interview with the man himself, written by our ace Adventurer Keith Campbell.

Just a minute please. My typewriter is full of Spiderman's web - horrible sticky stuff it is too. There, that's got rid of it. Now on with the show! As I've said, we will be taking an in-depth look at the Hulk and Spiderman adventures - Keith's got hold of the

# HERE COME THE C&VG SUPER HEROES!

only two discs in the country so you know where you'll be able

to read all about it first! Our May issue also sees the start of a brand new play-by-mail game called Quo Vadis? Fancy title eh? Anyhow, we promise that it's going to be just as exciting as the Seventh Empire - but just that little bit easier to play. And there will be big prizes for the winners - mark my words! Quo Vadis? is a cross between a puzzle, a computer game and a treasure hunt and will keep you busy for hours.

Talking about being busy for hours, Keith Campbell - yes, it's that man again - has been busy with his team of Adventure reviewers to bring you the first in a regular bi-monthly special Adventure review section. He has been looking at all the latest releases and will be bringing you an up-to-date round-up of the

best - and the worse - Adverture games around

We've also managed to persuade the Bug Hunter to bring us a new irregular feature on hardware add-ons for the games player - or more accurately their computers! The Bug Hunter will be taking a long hard look at things you can plug in, add on or

wire up. Plus a second look at our brand new Software Top 30 brought to you with the help of National Opinion Polls and the Daily Mirror newspaper.

All this and all your regular favourites too in the only readerfriendly magazine around. Don't miss it - or we may send Spiderman and the Hulk to find out why YOU haven't got a copy of C&VG alongside your compu-

ter. You know it makes sense! Excuse me, I have to go now. The Hulk has decided to start a bit of demolition work in the car park outside. I don't think Lord EMAP is going to be very pleased when he find his new Rolls Royce on the roof of that tower block

# PLEASE ENTER THESE SCORES IN THE C&VG ARCADE GAMES CHAMPIONSHIPS

My high score is:

It was scored on:

(name of machine) The manager of the pub/arcade who witnessed my score is:

His/Her Signature

I Name/address of pub/arcade

It was scored on

(name of machine)

The manager of the pub/arcade who witnessed my score is:

His/Her signature

Name/address of pub/arcade.

My high score is it was scared on

(name of machine) The manager of the pub/arcade

His/Her signature

Name/address of pub/arcade

My name is

172 COMPUTER & VIDEO GAMES

Have you written a games program which you feel is just you send us, including the cassette itself. right for C&VG? If so we have come up with a form to ensure that we can test it out and give you our views on it, as quickly as possible.

We would prefer a tape and listing but can work from just a tape and will return it to you if it doesn't find its way into

This form will merely help us to keep a check on your game as it goes through our testing process and make sure we have all the information we need to present it properly in the magazine.

If you don't want to cut up the magazine, we will accept

like lists of variables or how certain routines are working would be of great help to beginners. Please make sure tha rour name, address and the program name is on everythin	try to turn the winner into a best-selling games author
Program name:	
Machine	man and a second
Other models it	Model
	Number of K needed to run it:
Other equipment (joysticks, Extended Basic, add ons, etc.) needed to run it:	
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AUTHOR'S name:	Sur- name:
Address:	
Tel:	Date:
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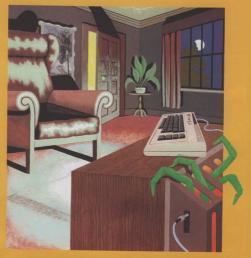
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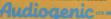
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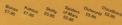
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